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ABSTRACT

The 12th Annual Survey of Graduate Science and Engineering Students and Postdoctorates requested data from all institutions of higher education in the United States in which there was at least one science or engineering program leading to a master's or doctoral degree, including medical schools and other components granting first-professional doctorates in health-related fields. These data are presented in detailed statistical tables provided in five parts labelled A-E. The first part includes summary data for all institutions, both doctorate- and master's-granting for fall 1983. The second part presents summary trend statistics from all graduate institutions, 1976-1983. The third and fourth parts show similar trend statistics for doctorage-granting and master's-granting institutions. The tables in the last part provide information on total departmental coverage along with rankings of individual institutions on the basis of fall 1983 data. Among the variables considered are sex, race, citizenship status, geographic distribution, type of control, full-time status, and part-time status. Also provided are technical notes, and copies of 1983 survey forms together with survey instructions and summaries of institutional responses. (JN)

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To obtain accurate historical data, use only the latest detailed statistical tables for fall 1983 (NSF 85-300) and not data published earlier. Institutions revise prior-year data when important changes occur in reporting practices and program classifications, and only the latest tables incorporate such changes.

general notes

This report presents data collected in the twelfth annual Survey of Graduate Science and Engineering Students and Postdoctorates, covering fall 1983. The survey universe included all institutions in the United States which had departments or programs offering master's or doctorate degrees in science and engineering (S/E) fields, including medical schools and other components granting first-professional doctorates in health-related fields.

Enrollment and support data for fall 1983 are presented in section III, which is divided into five subsections (A through E). Subsection A contains fall 1983 summary data for all graduate institutions, both doctorate- and master's-granting; subsection B presents summary trend data for all graduate institutions covering 1976 through 1983; subsections C and D contain similar trend statistics for doctorate-granting and master's-granting institutions separately; and subsection E shows summary information on departmental coverage along with rankings of individual institutions on the basis of fall 1983 data. Section IV displays survey questionnaire formats as well as summary questionnaire facsimiles containing data for all departments and for those in each level of highest degree granted, broad S/E field, and type of institution.

Data presented for doctorate-granting institutions include all institutions with any component (medical school, dental school, etc.) or branch campus granting S/E doctorates (including first-professional doctorates in health-related fields), for all years in which such degrees were offered. This definition differs from that used by the National Center for Education Statistics (NCES) in that the National Science Foundation (NSF) includes institutions granting first-professional medical degrees in this category, while NCES classifies such institutions as "professional and specialized institutions." The distinctions between the NSF and NCES classification systems are discussed in greater detail in section II of this report.

The following definitions and limitations should be borne in mind in all analyses of the data included in this report:

- The expression "institutional support" in tables showing full-time graduate enrollment by source of support denotes students receiving their primary support from State and local governments as well as from their institutions.

- The term "Other U.S. sources" refers to industrial firms, nonprofit institutions (independent research institutes, professional societies, philanthropic foundations, etc.) and all other sources of support originating within the United States. Students supported primarily by foreign industrial firms, as well as foreign governments, are reported under "foreign sources."

- The expression "imputation" refers to a computerized process which generates estimates for nonrespondent institutions on the basis of their own data from earlier years, where available, or from peer institutions. Data may be imputed for an entire institution, for a department, or for individual items or cells within items for which the institution or department was unable to provide actual data. For institutions or departments which responded to earlier surveys in the series, the most recent data available were either increased or decreased to reflect the growth or decline in the relevant variable reported by similar departments. If no prior-year data were available, the totals were distributed on the basis of factors derived from responding departments in the same field and level of degree.

- Since respondent institutions are given the option of revising prior-year data as well as current data during the editing process, only the trend data

published in the most recent report should be used in historical analyses.

Data published in this report are also available in machine-readable format on magnetic tapes. A multi-year data tape contains data for fall 1976 through fall 1983; single-year data tapes are available for 1975 and earlier years and for 1983. Information on tape formats and years available, along with ordering instructions and prices, are contained in the *Data User Guide* which is updated annually. In addition, selected trend data on an individual institution basis, comparing graduate enrollment data with information from NSF's other academic S/E surveys on R&D expenditures, Federal support, and scientists and engineers employed, are available in Institutional Profiles for each doctorate-granting institution. To order Institutional Profiles for any institution or group of institutions, please contact Richard Bernof; for a copy of the latest *Data User Guide* or to obtain additional information on the graduate student survey findings, contact J. G. Huckenpahler. Both may be reached at the following address and telephone number:

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section i

technical notes

the survey universe

Data from the fall 1983 Survey of Graduate Science and Engineering Students and Postdoctorates (GSESP) published in this report represent all academic institutions in the United States which granted doctorate- or master's-level degrees in any science or engineering (S/E) field. Institutions included data for their branch campuses, affiliated research centers, and separately organized components such as medical or dental schools, schools of nursing, public health, etc. The final 1983 survey universe consisted of 731 reporting units at 617 institutions. Of these, 438 reporting units were associated with 324 doctorate-granting institutions and 293 represented master's-granting institutions.

Data on graduate S/E enrollment and postdoctorates have been collected by the National Science Foundation (NSF) on an annual basis since 1967. For fall 1967 through fall 1971, data were collected through the NSF Graduate Traineeship Program; data for fall 1972 and succeeding years have been collected through the GSESP surveys. It should be noted, however, that the Graduate Traineeship Program collected data from only a limited number of doctorate departments in doctorate-granting institutions on their applications for traineeships in the fields supported by NSF. Expansion of the survey to universe coverage occurred gradually over the 1972-75 period. Data for 1967 through 1974 are therefore not strictly comparable with data for 1975 and subsequent years. Table I-1 shows the number of institutions, reporting units, and departments at each degree level which were included in the survey universe in each year from 1967 to 1983.

TABLE I-1. — THE NSF DATA COLLECTION SERIES: 1967-83

SOURCE AND YEAR OF SERIES	NUMBER OF INSTITUTIONS SURVEYED	NUMBER OF REPORTING UNITS SURVEYED	NUMBER OF DEPARTMENTS		
			TOTAL	MASTER'S	DOCTORATE
A. GRADUATE TRAINEESHIP PROGRAM					
1967	209	N/A	3,014	434	2,580
1968	219	N/A	3,190	454	2,736
1969	224	N/A	3,354	460	2,894
1970	227	N/A	3,544	473	3,071
1971	224	249	3,397	407	2,990
B. SURVEY OF GRADUATE SCIENCE/ ENGINEERING STUDENTS AND POSTDOCTORATES 1/					
DOCTORATE INSTITUTIONS:					
1972 2/	260	328	4,593	780	3,813
1973	264	340	6,571	885	5,686
1974	282	370	7,498	1,394	6,104
1975	283	376	7,659	1,471	6,188
1976	289	384	7,759	1,526	6,233
1977	293	393	7,988	1,650	6,338
1978	312	421	8,202	1,790	6,412
1979	318	436	8,341	1,825	6,516
1980	325	443	8,516	1,939	6,577
1981	322	438	8,437	1,926	6,511
1982	322	439	8,299	1,916	6,383
1983	324	438	8,204	1,905	6,299
MASTER'S INSTITUTIONS:					
1975 3/	307	310	1,263	1,263	N/A
1976	294	297	1,299	1,299	N/A
1977	308	311	1,469	1,469	N/A
1978 4/	1	1	15	15	N/A
1979	313	313	1,442	1,442	N/A
1980	304	304	1,409	1,409	N/A
1981	303	303	1,432	1,432	N/A
1982	290	290	1,434	1,434	N/A
1983	293	293	1,459	1,459	N/A

1/ THE NAME OF THE SURVEY WAS CHANGED IN 1981 TO SPECIFY THE INCLUSION OF ENGINEERING.
2/ THE 1972 SURVEY OF DOCTORATE-GRANTING INSTITUTIONS INCLUDED SELECTED DATA ITEMS FOR 1971.
3/ THE 1976 SURVEY OF MASTER'S-GRANTING INSTITUTIONS INCLUDED SELECTED DATA ITEMS FOR 1975.
4/ THE 1978 SURVEY DID NOT INCLUDE MASTER'S INSTITUTIONS. ONE INSTITUTION WAS SUBSEQUENTLY CHANGED FROM DOCTORATE- TO MASTER'S-GRANTING.

NOTE: N/A - NOT APPLICABLE
SOURCE: NATIONAL SCIENCE FOUNDATION

The decline in the number of graduate departments in doctorate institutions which began in 1981 is largely the result of a systematic effort by NSF to identify and delete those departments or programs, especially in medical schools, which have discontinued their graduate S/E programs. Increasing financial constraints in the early eighties have led institutions to slow down the creation of new programs and merge others and, in some cases, to eliminate recently established graduate programs. In medical schools, in particular, a number of departments which had continued to participate in the GSESP survey on the basis of their expectation of establishing or re-establishing graduate programs indicated that they felt such expansion to be increasingly unlikely.

Tables I-2 and I-3 present data on departmental coverage in each broad S/E field for each of the years 1976 through 1983, along with total full-time enrollment in each field, for doctorate- and master's-granting institutions. The 1978 survey collected data from doctorate-level institutions only.

TABLE I-2. — NUMBER OF GRADUATE DEPARTMENTS AND FULL-TIME ENROLLMENT AT DOCTORATE-GRANTING INSTITUTIONS BY AREA OF SCIENCE/ENGINEERING: 1976-83

AREA OF SCIENCE/ENGINEERING	1976	1977	1978	1979	1980	1981	1982	1983
	NUMBER OF DEPARTMENTS							
TOTAL, ALL AREAS	7,759	7,988	8,202	8,341	8,516	8,437	8,299	8,204
ENGINEERING	1,004	1,010	1,021	1,024	1,035	1,040	1,055	1,062
PHYSICAL SCIENCES	506	507	517	517	523	523	520	520
ENVIRONMENTAL SCIENCES	267	272	279	280	282	284	286	284
COMPUTER SCIENCES	91	94	101	108	123	127	137	146
MATHEMATICAL SCIENCES	310	311	316	320	333	329	334	333
LIFE SCIENCES	4,208	4,377	4,496	4,583	4,661	4,574	4,399	4,286
PSYCHOLOGY	287	301	317	320	325	330	331	335
SOCIAL SCIENCES	1,086	1,116	1,155	1,189	1,234	1,230	1,237	1,238
	FULL-TIME ENROLLMENT							
TOTAL, ALL AREAS	214,089	217,453	216,608	223,409	230,535	234,194	236,939	243,646
ENGINEERING	36,231	36,675	37,057	39,344	41,939	44,837	48,687	53,553
PHYSICAL SCIENCES	21,590	21,747	21,497	21,797	22,254	22,600	23,330	24,476
ENVIRONMENTAL SCIENCES	9,668	10,019	9,997	10,171	10,265	10,491	10,873	11,428
COMPUTER SCIENCES	4,283	4,196	4,426	5,073	5,900	6,465	7,908	9,258
MATHEMATICAL SCIENCES	10,281	9,814	9,296	9,136	9,368	9,680	10,174	10,323
LIFE SCIENCES	61,903	64,303	65,215	66,471	67,711	67,195	65,653	65,185
PSYCHOLOGY	21,482	21,266	20,711	20,737	21,580	21,544	21,103	21,327
SOCIAL SCIENCES	48,651	49,433	48,409	50,680	51,518	51,402	49,211	48,096

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE I-3. — NUMBER OF GRADUATE DEPARTMENTS AND FULL-TIME ENROLLMENT AT MASTER'S-GRANTING INSTITUTIONS BY AREA OF SCIENCE/ENGINEERING: 1976-83

AREA OF SCIENCE/ENGINEERING	1976	1977	1979	1980	1981	1982	1983
	NUMBER OF DEPARTMENTS						
TOTAL, ALL AREAS	1,299	1,469	1,442	1,409	1,432	1,434	1,459
ENGINEERING	128	156	147	147	145	150	157
PHYSICAL SCIENCES	179	189	171	158	154	153	146
ENVIRONMENTAL SCIENCES	51	55	54	54	55	56	55
COMPUTER SCIENCES	26	32	33	31	38	38	46
MATHEMATICAL SCIENCES	131	141	134	127	125	120	120
LIFE SCIENCES	296	346	354	352	369	376	385
PSYCHOLOGY	153	167	179	176	185	189	195
SOCIAL SCIENCES	335	383	370	362	361	352	355
	FULL-TIME ENROLLMENT						
TOTAL, ALL AREAS	16,759	18,711	18,970	18,624	18,803	18,358	20,154
ENGINEERING	734	890	1,049	1,168	1,440	1,552	1,677
PHYSICAL SCIENCES	642	758	738	664	708	710	721
ENVIRONMENTAL SCIENCES	551	537	553	704	547	563	623
COMPUTER SCIENCES	465	409	780	687	980	1,263	1,420
MATHEMATICAL SCIENCES	671	551	532	534	474	649	659
LIFE SCIENCES	4,332	4,525	4,679	4,698	5,046	4,901	5,020
PSYCHOLOGY	4,167	4,444	5,128	5,112	5,181	4,715	5,437
SOCIAL SCIENCES	5,178	6,598	5,511	5,057	4,427	4,305	4,597

SOURCE: NATIONAL SCIENCE FOUNDATION

the survey instruments

The Department or Program Data Sheet (form 812) used for the fall 1983 GSESP survey was almost identical to the fall 1982 version, except for items 9 through 12 requesting data on full-time S/E faculty, which were optional in 1982 but became a part of the standard questionnaire in 1983. Data collected in these items will be presented in a separate report.

Also included in the survey package for each responding entity were a flier explaining the NSF's academic S/E survey system; a computer-generated List of Departments or Programs (form 811) as determined by the responses to the previous survey; a "Crosswalk" linking fields of science and engineering as defined by NSF with the instructional program codes designed by the National Center for Education Statistics (NCES) in 1981; a flow chart for the assistance of those institutions or departments using computerized records to compile their submissions; and a postcard for the institutions to indicate changes in coordinator name, address, or telephone number. A set of 1983 GSESP survey instruments is reproduced in section IV.

survey methodology

Survey packages were mailed out by November 25, 1983, to all institutions known to have S/E graduate students and/or postdoctorates on the basis of the fall 1982 GSESP data, as well as to four new institutions believed to be eligible for inclusion on the basis of information from NCES. Three more institutions were added later in the survey cycle.

Institutional coordinators were asked on the postcard to indicate the sources of the data reported, whether centrally-maintained or collected from the individual departments and whether computerized or hand-tabulated. Of the 535 coordinators providing this information (81 percent of those submitting responses), 5 percent indicated their exclusive reliance on a computerized central records system; 15 percent reported that their responses were hand-tabulated in the central office; and 39 percent relied entirely on hand tabulations submitted by respondents in each department. The largest number, 41 percent, reported a combination of sources. These proportions are very similar to those reported in 1982 and indicate that further automation is not yet feasible.

The coordinators were requested to review the departmental listings shown on the form 811 and to make any changes needed as a result of organizational modifications such as the creation of new departments, phasing out of old departments, departmental splits or mergers, and name changes. In addition, coordinators were asked to check off those departments that had neither graduate students nor postdoctorates at that time and for which form 812's would therefore not be submitted. The updated form 811 then served as a checklist in keeping track of departmental responses.

The form 812's were filled out either centrally or at the department level and returned to the data processing contractor along with one copy of the form 811, for data entry, editing, and tabulation. Any errors, inconsistencies, and major year-to-year fluctuations were referred to the institutional coordinators for correction or explanation. Institutions reporting large numbers of full-time graduate students as receiving their primary support from "other Federal sources" or "other U.S. sources" were asked if they could provide further data on the specific Federal agencies or types of other organizations (e.g., business firms, philanthropic foundations, professional societies, etc.) and the number of students receiving their primary support from each. The 277 departments responding to this request for further detail accounted for 2,300 graduate students supported by "other Federal sources" and 1,700 supported by "other U.S. sources." The Department of Energy was the largest of the Federal agencies listed, accounting for 29 percent of those supported by all other Federal agencies, followed by the Department of Agriculture, with 25 percent. Of those supported primarily by "other U.S. sources," industrial firms were the major source of funding for 64 percent, and nonprofit organizations for 36 percent.

the response rate

Of the 617 institutions included in the final 1983 data base, 554, or 90 percent, were able to respond with at least partial data, including 306, or 94 percent, of the doctorate-granting institutions surveyed. At the department level, complete responses were received from 8,070 of the 9,663 departments included in the final count, or 84 percent of the total. An additional 816 departments, 8 percent of the total, were able to provide partial data. As in earlier years, missing data for completely and partially nonrespondent departments were machine-imputed using the methods described earlier.

Tables I-4 through I-7 show the numbers of departments requiring total or partial imputation and the numbers and proportions of full-time and part-time graduate students and postdoctorates imputed. Imputation rates for doctorate-granting institutions, shown in tables I-4 and I-5 were significantly lower than those for master's-level institutions (tables I-6 and I-7).

Imputation rates for most cells of the survey questionnaire were somewhat lower in 1983 than in 1982, although still not as low as in 1980 and earlier years when only a few cells showed imputation rates higher than 5 percent. Among the reasons for the higher nonresponse rate in 1981 (13 percent) were personnel and funding cutbacks and subsequent increases in workload, as well as increasing resistance to data collection surveys in general. The increased response rate which began in 1982 is believed to be the result primarily of an earlier mailout date that resulted in a longer leadtime and more intensive follow-up procedures, especially with larger institutions and those with a history of nonresponse.

The fall 1983 survey included four questions on faculty (items 9 through 12) as a part of the regular questionnaire for the first time, as indicated earlier. The departmental response rate on these items was up dramatically from the previous year, from 35 percent to 80 percent. As in 1982, the response rate was higher in doctorate-granting institutions, although the difference between the two groups of institutions was not as great. The increase in the response rate enabled machine-imputation procedures analogous to those for the enrollment items to be applied. Data derived from the faculty items, when published, will therefore represent national estimates.

TABLE I-4. — IMPUTATION FOR NONRESPONSE AT DOCTORATE-GRANTING INSTITUTIONS BY AREA OF SCIENCE/ENGINEERING AND ENROLLMENT STATUS: 1983

AREA OF SCIENCE/ENGINEERING	NUMBER OF GRADUATE DEPARTMENTS		TOTAL IN SURVEY			NUMBER IMPUTED			IMPUTATION RATE (PERCENT)		
	IN UNIVERSE	TOTALLY IMPUTED	FULL TIME	PART TIME	POSTDOC-TORATES	FULL TIME	PART TIME	POSTDOC-TORATES	FULL TIME	PART TIME	POSTDOC-TORATES
TOTAL, ALL AREAS	8,204	584	243,646	114,630	20,790	16,174	9,820	2,381	6.6	8.6	11.5
ENGINEERING	1,062	64	53,553	32,420	3,169	3,174	2,817	139	5.9	8.7	12.5
PHYSICAL SCIENCES	590	38	24,476	3,225	4,444	1,549	337	400	6.3	10.4	9.0
ENVIRONMENTAL SCIENCES	284	18	11,428	2,855	414	660	138	84	5.8	4.8	20.3
COMPUTER SCIENCES	146	8	9,258	9,264	82	238	394	0	2.6	4.2	**
MATHEMATICAL SCIENCES	333	27	10,323	4,620	170	728	357	29	7.0	7.7	17.0
LIFE SCIENCES	4,286	303	65,185	26,110	13,775	4,216	1,957	1,704	6.5	7.5	12.4
PSYCHOLOGY	335	25	21,327	7,768	436	1,741	811	24	8.2	10.4	5.2
SOCIAL SCIENCES	1,238	101	48,096	28,368	360	3,868	3,009	8	8.0	10.6	2.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE I-5. — IMPUTATION RATES FOR ALL DEPARTMENTS AT ALL DOCTORATE-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF IMPUTED DEPARTMENTS: 1110 (TOTALLY IMPUTED DEPARTMENTS: 584)

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
	DEPT. OF DEFENSE (A)	NATIONAL INST. OF HEALTH (B)	OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITU-TIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	2.4	4.3	7.1	6.5	6.5	8.8	7.9	7.7		7.9
GRADUATE TRAINEESHIPS (2)	2.5	9.2	10.1	46.0	6.7	10.7	10.3	5.0		9.4
GRADUATE RESEARCH ASSISTANTSHIPS (3)	8.0	9.2	5.3	8.1	9.0	9.0	8.4	8.5		8.7
GRADUATE TEACHING ASSISTANTSHIPS (4)		8.1	0.0	36.0	9.0	9.8		5.5		9.8
OTHER TYPES OF SUPPORT (5)	2.8	1.1	6.1	1.5	5.2	8.5	6.4	8.5	10.5	9.7
FULL-TIME TOTAL (6)	5.7	8.7	9.1	8.1	8.2	9.5	7	8.0	10.5	6.6
FULL-TIME WOMEN (7)	4.5	10.5	8.7	7.6	6.5	11.7	5.5	8.2	12.2	8.9
FIRST-YEAR TOTAL (8)										9.0
FIRST-YEAR WOMEN (9)										8.8

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	8.6
WOMEN (2)	9.1

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN	TOTAL (SUM OF COLUMNS A - G)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	(G)	(H)
FULL-TIME (1)	10.6	26.3	8.7	13.3	10.3	11.4	11.2	6.6
PART-TIME (2)	15.7	37.2	17.4	19.5	15.6	26.8	21.3	8.6

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT						OTHER NON-FAC. DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
	FELLOW-SHIPS (A)	FEDERAL TRAINEE-SHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOC-TORATES (F)	(G)	(H)
TOTAL (1)	10.8	14.7	10.5	13.5	11.5	12.3	10.7	11.2
WOMEN (2)	7.5	13.1	12.0	13.2	11.6	11.6	9.7	11.2
WITH MD, DDS, OR DVM DEGREES (3)	14.7	17.3	17.1	20.1	18.0	13.8	21.3	18.2

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE I-6. — IMPUTATION FOR NONRESPONSE AT MASTER'S-GRANTING INSTITUTIONS BY AREA OF SCIENCE/ENGINEERING AND ENROLLMENT STATUS: 1983

AREA OF SCIENCE/ENGINEERING	NUMBER OF GRADUATE DEPARTMENTS		TOTAL IN SURVEY			NUMBER IMPUTED			IMPUTATION RATE (PERCENT)		
	IN UNIVERSE	TOTALLY IMPUTED	FULL TIME	PART TIME	POSTDOC-TORATES	FULL TIME	PART TIME	POSTDOC-TORATES	FULL TIME	PART TIME	POSTDOC-TORATES
TOTAL, ALL AREAS	1,459	232	20,154	35,134	39	3,110	5,243	8	15.4	14.9	20.5
ENGINEERING	157	19	1,677	5,067	4	168	328	3	10.0	6.5	75.0
PHYSICAL SCIENCES	146	23	721	1,026	14	129	162	4	17.9	15.8	28.6
ENVIRONMENTAL SCIENCES	55	11	623	719	5	113	154	1	18.1	21.4	20.0
COMPUTER SCIENCES	46	8	1,420	3,901	0	251	200	0	17.7	5.1	**
MATHEMATICAL SCIENCES	120	17	659	1,912	0	142	620	0	21.5	32.4	**
LIFE SCIENCES	385	67	5,020	7,584	14	857	1,508	0	17.1	19.9	.0
PSYCHOLOGY	195	37	5,437	6,602	1	615	1,314	0	11.3	19.9	.0
SOCIAL SCIENCES	355	50	4,597	8,323	1	835	957	0	18.2	11.5	.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE I-7. — IMPUTATION RATES FOR ALL DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF IMPUTED DEPARTMENTS: 483 (TOTALLY IMPUTED DEPARTMENTS: 232)

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	NATIONAL INST. OF HEALTH (B)	OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITU-TIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	0.0	0.0	100.0	0.0	34.2	44.5	11.2	25.0		32.9
GRADUATE TRAINEESHIPS (2)	20.0	11.1	16.5	21.4	39.0	35.7	60.0	45.5		31.4
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0.0	20.2	0.0	14.6	19.9	36.0	0.0	40.9		32.2
GRADUATE TEACHING ASSISTANTSHIPS (4)		0.0	0.0	0.0	5.7	34.6		19.2		34.0
OTHER TYPES OF SUPPORT (5)	20.6	8.7	7.1	0.0	12.0	24.2	12.6	17.1	26.1	25.2
FULL-TIME TOTAL (6)	18.5	14.3	15.5	14.8	22.4	33.4	14.2	22.6	25.9	15.4
FULL-TIME WOMEN (7)	13.6	7.4	11.3	15.8	26.9	36.7	21.7	40.6	30.5	24.6
FIRST-YEAR TOTAL (8)										26.9
FIRST-YEAR WOMEN (9)										27.7

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	14.9
WOMEN (2)	23.5

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN	TOTAL (SUM OF COLUMNS A - G)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	(G)	(H)
FULL-TIME (1)	23.7	58.6	25.6	26.6	26.2	22.4	34.7	15.4
PART-TIME (2)	23.3	49.6	16.8	20.1	24.2	30.1	34.3	14.9

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOC-TORATES (F)		
	FELLOW-SHIPS (A)	FEDERAL TRAINEE-SHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	0.0	0.0	9.1	42.9	20.5	33.3	4.2	9.2
WOMEN (2)	0.0	0.0	0.0	33.3	12.5	33.3	0.0	7.1
WITH MD, DDS, OR DVM DEGREES (3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SOURCE: NATIONAL SCIENCE FOUNDATION

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section ii

classification of institutions

A complete listing of all graduate institutions which were included in the GSESP survey universe for fall 1983 is presented in tables II-1 and II-2. For institutions consisting of more than one reporting unit, all such separate units are shown under the parent institution. Doctorate-granting institutions are presented in table II-1; those whose highest S/E degrees are at the master's level are shown in table II-2. In both tables, institutions are listed alphabetically within State.

For the assistance of those wishing to order Institutional Profiles as described in the General Notes for their own or selected peer institutions, tables II-1 and II-2 now include the Federal Interagency Commission on Education (FICE) codes for each institution. It should be noted that Profiles are available only at the institutional level; separate Profiles have not been generated for individual components or branch campuses within an institution.

As in earlier years, tables II-1 and II-2 also include the Institutional Classification Codes for all separate institutions. These codes, designed by NCES in 1981 to replace the Carnegie Commission Codes which were last updated in 1976, classify all institutions recognized by NCES on the basis of three criteria: (1) Number of degrees awarded, by level of degree; (2) number of fields in which degrees were awarded; and (3) the ratio of degrees awarded in selected fields to the total number of degrees awarded.

Because of the difference between the criteria used by NCES and NSF in classifying institutions, many individual institutions show wide variation in their classifications under the two systems. Thus, for institutional category A, "Doctorate-Granting Institutions," NCES includes only those 161 institutions believed to have had "a significant level of activity" and "diversity in doctorate program offerings." The 324 institutions shown in table II-1, by comparison, include all those with *any* doctorate S/E programs, including first-professional doctorates in medical and health-related fields. The data presented in the "doctorate-granting institutions" column of table A-5, section III, are based on the NCES system and should not be compared with data on doctorate-granting institutions shown elsewhere in this report.

The NSF survey universe is drawn primarily from categories A and B, with some institutions from categories C and D. All institutions in category E are excluded by definition. The NCES institutional classifications used in the GSESP are defined as follows:[1]

[1]This information is quoted from the National Center for Education Statistics Announcement, "NCES changes classification of Higher Education Institutions," April 7, 1981 (NCES 81-404).

A. Doctorate-Granting Institutions

These institutions are characterized by a significant level of activity in, and commitment to, doctoral-level education as measured by the number of doctorate recipients and in diversity in doctorate program offerings. Included in this category are institutions that are not considered specialized schools (classsification D below) and that grant a minimum of 30 doctoral-level degrees. These degrees must be granted in 3 or more doctoral-level program areas or have an interdisciplinary program at the doctorate level. Included in the counts of doctorate degrees are the first professional medical degrees (M.D., D.O., D.D.S., D.M.D., D.V.M., or equivalent).

A01—without a medical school

A02—with a medical school

B. Comprehensive Institutions

These institutions are characterized by a strong, diverse postbaccalaureate program (including first professional), but do not engage in significant doctoral-level education. Specifically, this category includes institutions not considered specialized schools in which the number of doctoral-level degrees granted is less than 30 or in which fewer than 3 doctoral-level programs are offered. In addition, these institutions must grant a minimum of 30 postbaccalaureate degrees

and either grant degrees in 3 or more postbaccalaureate programs or have an interdisciplinary program at the postbaccalaureate level.

B01—without a medical school

B02—with a medical school

C. General Baccalaureate Institutions

These institutions are characterized by their primary emphasis on general undergraduate, baccalaureate education. They are not significantly engaged in postbaccalaureate education. Included are institutions not considered specialized institutions in which the number of postbaccalaureate degrees granted is less than 30 or in which fewer than 3 postbaccalaureate-level programs are offered. Such institutions must also either (a) grant baccalaureate degrees in 3 or more baccalaureate programs, or (b) offer a baccalaureate program in interdisciplinary studies. In addition, over 75 percent of the degrees granted must be at the baccalaureate level or above.

D. Professional and Specialized Institutions

These are baccalaureate or postbaccalaureate institutions that are characterized by a programmatic emphasis in one area, usually a professional field such as business or engineering. The programmatic emphasis is measured by the percentage of degrees granted in one program area. An institution granting over 60 percent of its degrees in one field, or granting over half of its degrees in one field and granting degrees in fewer than 5 baccalaureate programs is considered to be a professional or specialized institution.

D01—Divinity Institutions

Institutions in which the number of professional theological degrees plus the number of other degrees granted in theology (2300 field in the HEGIS[2] taxonomy) exceed 60 percent of all degrees awarded. As an alternative, the number of theological degrees awarded may exceed only 50 percent of all degrees awarded and the number of baccalaureate programs offered may be fewer than 5.

D02—Medical Institutions

Institutions which are primarily engaged in health science education and which offer first professional medical degrees such as M.D., D.O., D.D.S., and D.V.M. These institutions are those (a) in which the number of professional health science degrees (medicine, dentistry, osteopathy, veterinary medicine) granted, plus the number of other health science degrees (1200 field in the HEGIS taxonomy), exceed 60 percent of degrees awarded; or, in which the number of health science degrees awarded exceeds 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5; and (b) which confer first-professional medical degrees.

D03—Other Health Institutions

Institutions which are primarily engaged in health science and which satisfy criterion (a) in D02 above but which do not confer first-professional medical degrees (M.D., D.D.S., D.O., D.V.M.).

[2]HEGIS—Higher Education General Information Survey.

D04—Engineering Schools

Institutions in which the number of degrees awarded in the area of engineering (0900 field in the HEGIS taxonomy) exceed 60 percent of all degrees awarded, or, in which the number of engineering degrees awarded exceed 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5.

D05—Business and Management Schools

Institutions which confer over 60 percent of their degrees in the area of business and management science (0500 field in the HEGIS taxonomy); or, in which the number of such degrees awarded exceeds 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5.

D08—Education Schools

Institutions which confer over 60 percent of their degrees in education (0800 field in the HEGIS taxonomy); or, in which the number of education degrees awarded exceeds 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5.

D09—U.S. Service Schools

Schools under Federal control.

D10—Other Specialized or Professional Schools

Institutions which grant degrees in fewer than three programs at the baccalaureate level, master's level, and the doctorate level, and which did not confer over 50 percent of their degrees in any of the above categories.

TABLE II-1.—DOCTORATE-GRANTING INSTITUTIONS IN THE 1983 SURVEY

FICE CODE		NCES CLASSIFICATION
	ALABAMA	
008695	AUBURN UNIVERSITY GRADUATE SCHOOL (MAIN CAMPUS) GRADUATE SCHOOL AT MONTGOMERY	A02
001051	THE UNIVERSITY OF ALABAMA	A01
001052	THE UNIVERSITY OF ALABAMA IN BIRMINGHAM GRADUATE SCHOOL SCHOOL OF MEDICINE	A02
001055	THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	B01
001057	UNIVERSITY OF SOUTH ALABAMA GRADUATE SCHOOL COLLEGE OF MEDICINE	B02
	ALASKA	
029094	UNIVERSITY OF ALASKA AT FAIRBANKS	C01
	ARIZONA	
001081	ARIZONA STATE UNIVERSITY	A01
001082	NORTHERN ARIZONA UNIVERSITY	B01
001083	UNIVERSITY OF ARIZONA GRADUATE SCHOOL COLLEGE OF MEDICINE	A02
	ARKANSAS	
001108	UNIVERSITY OF ARKANSAS	A01
001109	UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	D02
	CALIFORNIA	
001122	BIOLA UNIVERSITY	B01
009844	CALIF SCH OF PROF PSYCH - BERKELEY	D10
011881	CALIF SCH OF PROF PSYCH - FRESNO	D10
010013	CALIF SCH OF PROF PSYCH - LOS ANGELES	D10
011117	CALIF SCH OF PROF PSYCH - SAN DIEGO	D10
012154	CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	D10
001131	CALIFORNIA INSTITUTE OF TECHNOLOGY	A01
001169	CLAREMONT UNIV CENTER & GRADUATE SCHOOL	A01
000166	DREW POST-GRADUATE MEDICAL SCHOOL	D02*
001200	FULLER THEOLOGICAL SEMINARY	D01
001205	GOLDEN GATE UNIVERSITY	B01
001218	LOMA LINDA UNIVERSITY GRADUATE SCHOOL SCHOOL OF MEDICINE	D02
029225	PACIFIC GRAD SCHOOL OF PROF PSYCH	D10
010441	RAND GRADUATE INSTITUTE POLICY STUDIES	A01
001151	SAN DIEGO STATE UNIVERSITY	B01
001305	STANFORD UNIVERSITY GRADUATE SCHOOL SCHOOL OF MEDICINE	A02
029092	THE FIELDING INSTITUTE	D10
008846	THE WRIGHT INSTITUTE	D10
001312	UNIVERSITY OF CALIF AT BERKELEY	A01
001313	UNIVERSITY OF CALIF AT DAVIS	A02
001314	UNIVERSITY OF CALIF AT IRVINE GRADUATE SCHOOL CALIFORNIA COLLEGE OF MEDICINE	A02
001315	UNIVERSITY OF CALIF AT LOS ANGELES GRADUATE SCHOOL SCHOOL OF MEDICINE	A02
001316	UNIVERSITY OF CALIF AT RIVERSIDE	A01
001317	UNIVERSITY OF CALIF AT SAN DIEGO GRADUATE SCHOOL SCHOOL OF MEDICINE	A02
001319	UNIVERSITY OF CALIF AT SAN FRANCISCO	D02
001320	UNIVERSITY OF CALIF AT SANTA BARBARA	A01
001321	UNIVERSITY OF CALIF AT SANTA CRUZ	A01
001326	UNIVERSITY OF SANTA CLARA	B01
001328	UNIVERSITY OF SOUTHERN CALIFORNIA GRADUATE SCHOOL SCHOOL OF MEDICINE	A02
001329	UNIVERSITY OF THE PACIFIC	A02
001198	US INTERNATIONAL UNIVERSITY	A01
001310	US NAVAL POSTGRADUATE SCHOOL	D09
	COLORADO	
001348	COLORADO SCHOOL OF MINES	D04
001350	COLORADO STATE UNIVERSITY	A02
008717	UNIVERSITY OF COLORADO GRADUATE SCHOOL AT BOULDER GRADUATE SCHOOL OF PUBLIC AFFAIRS GRADUATE SCHOOL AT DENVER GRADUATE SCHOOL AT COLORADO SPRINGS SCHOOL OF MEDICINE	A02
001371	UNIVERSITY OF DENVER	A01
001349	UNIVERSITY OF NORTHERN COLORADO	A01
	CONNECTICUT	
008718	UNIVERSITY OF CONNECTICUT GRADUATE SCHOOL SCHOOL OF MEDICINE	A02
001424	WESLEYAN UNIVERSITY	B01
001426	YALE UNIVERSITY GRADUATE SCHOOL SCHOOL OF MEDICINE SCHOOL OF NURSING	A02
	DELAWARE	
001431	UNIVERSITY OF DELAWARE	A01
	DISTRICT OF COLUMBIA	
001434	AMERICAN UNIVERSITY	A01
001437	CATHOLIC UNIVERSITY OF AMERICA	A01
001444	GEORGE WASHINGTON UNIVERSITY GRADUATE SCHOOL SCHOOL OF MEDICINE AND HEALTH SCIENCES	A02
001445	GEORGETOWN UNIVERSITY GRADUATE SCHOOL SCHOOL OF MEDICINE	A02
001448	HOWARD UNIVERSITY GRADUATE SCHOOL COLLEGE OF MEDICINE	A02
	FLORIDA	
001481	FLORIDA ATLANTIC UNIVERSITY	B01
001469	FLORIDA INSTITUTE OF TECHNOLOGY	B01
001489	FLORIDA STATE UNIVERSITY	A01
001509	NOVA UNIVERSITY	D08
003954	UNIVERSITY OF CENTRAL FLORIDA	B01
001535	UNIVERSITY OF FLORIDA GRADUATE SCHOOL COLLEGE OF MEDICINE	A02
001536	UNIVERSITY OF MIAMI GRADUATE SCHOOL SCHOOL OF MEDICINE	A02
001537	UNIVERSITY OF SOUTH FLORIDA GRADUATE SCHOOL COLLEGE OF MEDICINE	A02
	GEORGIA	
001551	ATLANTA UNIVERSITY	B01
001564	EMORY UNIVERSITY GRADUATE SCHOOL SCHOOL OF MEDICINE	A02
008723	GEORGIA INSTITUTE OF TECHNOLOGY	D04
001574	GEORGIA STATE UNIVERSITY	A01
001579	MEDICAL COLLEGE OF GEORGIA	D02
029297	MOREHOUSE SCHOOL OF MEDICINE	D02
001598	UNIVERSITY OF GEORGIA	A02
	HAWAII	
001610	UNIVERSITY OF HAWAII AT MANOA GRADUATE SCHOOL JOHN A. BURNS SCHOOL OF MEDICINE	A02
	IDAHO	
001620	IDAHO STATE UNIVERSITY	B01
001629	UNIVERSITY OF IDAHO	A01
	ILLINOIS	
001657	CHICAGO COLL OF OSTEO MEDICINE	D02
029230	CHICAGO SCHOOL OF PROF PSYCH	D11
001671	DE PAUL UNIVERSITY	B01
001691	ILLINOIS INSTITUTE OF TECHNOLOGY	A01
001692	ILLINOIS STATE UNIVERSITY	A01
001710	LOYOLA UNIVERSITY OF CHICAGO GRADUATE SCHOOL GRAD SCH AT THE MEDICAL CENTER STRITCH SCHOOL OF MEDICINE	A02
001737	NORTHERN ILLINOIS UNIVERSITY	A01
001739	NORTHWESTERN UNIVERSITY GRADUATE SCHOOL MEDICAL SCHOOL	A02
009800	RUSH UNIVERSITY	D02
001758	SOUTHERN ILLINOIS UNIV AT CARBONDALE	A02
001774	UNIVERSITY OF CHICAGO GRADUATE SCHOOL PRITZKER SCHOOL OF MEDICINE	A02
001659	UNIVERSITY OF HEALTH SCIENCES	D02
001775	UNIVERSITY OF ILLINOIS - URBANA	A02
001776	UNIVERSITY OF ILLINOIS AT CHICAGO GRADUATE SCHOOL HEALTH SCIENCE CENTER - GRADUATE SCHOOL HEALTH SCIENCE CENTER - COLLEGE OF MED	A02
	INDIANA	
001786	BALL STATE UNIVERSITY	A01
001807	INDIANA STATE UNIVERSITY	B01
008731	INDIANA UNIVERSITY GRADUATE SCHOOL-BLOOMINGTON FORT WAYNE CAMPUS SOUTH BEND CAMPUS SCHOOL OF MEDICINE	A02
008732	PURDUE UNIVERSITY GRADUATE SCHOOL CALUMET	A02
001840	UNIVERSITY OF NOTRE DAME	A01

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

TABLE II-1.—DOCTORATE-GRANTING INSTITUTIONS IN THE 1983 SURVEY—CON.

FICE CODE		NCES CLASSI-FICATION
	IOWA	
001869	IOWA STATE UNIVERSITY OF SCI & TECH	A02
001892	UNIVERSITY OF IOWA	A02
	GRADUATE SCHOOL	
	COLLEGE OF MEDICINE	
001890	UNIVERSITY OF NORTHERN IOWA	B01
001855	UNIVERSITY OF OSTEOPATHIC MEDICINE	D02
	KANSAS	
001928	KANSAS STATE UNIV OF AGR & APPLIED SCI	A02
029001	UNIVERSITY OF KANSAS	A02
	GRADUATE SCHOOL	
	COLLEGE OF MEDICINE	
001950	WICHITA STATE UNIVERSITY	B01
	KENTUCKY	
008744	UNIVERSITY OF KENTUCKY	A02
	GRADUATE SCHOOL	
	COLLEGE OF MEDICINE	
001999	UNIVERSITY OF LOUISVILLE	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
	LOUISIANA	
008745	LOUISIANA STATE UNIVERSITY SYSTEM	A02
	GRADUATE SCHOOL IN BATON ROUGE	
	SCHOOL OF MEDICINE IN SHREVEPORT	
	MEDICAL CENTER AT NEW ORLEANS	
002008	LOUISIANA TECH UNIVERSITY	B01
002020	NORTHEAST LOUISIANA UNIVERSITY	B01
002029	TULANE UNIVERSITY OF LOUISIANA	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
	SCHOOL OF PUBLIC HEALTH & TROPICAL MED	
002015	UNIVERSITY OF NEW ORLEANS	B01
002031	UNIVERSITY OF SOUTHWESTERN LOUISIANA	B01
	MAINE	
002053	UNIVERSITY OF MAINE AT ORONO	B01
	MARYLAND	
002070	JOHNS HOPKINS UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF HYGIENE AND PUBLIC HEALTH	
	SCHOOL OF MEDICINE	
029169	UNIFORMED SERV UNIV OF THE HLTH SCIENCES	D09
002104	UNIVERSITY OF MARYLAND - BALT PROF SCH	D02
002105	UNIVERSITY OF MARYLAND - BALTIMORE CNTY	B01
002103	UNIVERSITY OF MARYLAND - COLLEGE PARK	A01
	MASSACHUSETTS	
002128	BOSTON COLLEGE	A01
002130	BOSTON UNIVERSITY	AC2
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
	SCHOOL OF DENTISTRY	
002133	BRANDEIS UNIVERSITY	A01
002139	CLARK UNIVERSITY	A01
002155	HARVARD UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF PUBLIC HEALTH	
	HARVARD MEDICAL SCHOOL	
002165	MASS COLLEGE OF PHARMACY/ALLIED HEALTH	D03
002178	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	A01
002199	NORTHEASTERN UNIVERSITY	B01
002209	SMITH COLLEGE	B01
002219	TUFTS UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF NUTRITION	
	SCHOOL OF MEDICINE	
002161	UNIVERSITY OF LOWELL	B01
002221	UNIVERSITY OF MASSACHUSETTS AT AMHERST	A01
009756	UNIVERSITY OF MASSACHUSETTS AT WORCESTER	D02
002230	WOODS HOLE OCEANOGRAPHIC INSTITUTION	D10*
002233	WORCESTER POLYTECHNIC INSTITUTE	D04
	MICHIGAN	
002243	CENTRAL MICHIGAN UNIVERSITY	B01
002290	MICHIGAN STATE UNIVERSITY	A02
002292	MICHIGAN TECHNOLOGICAL UNIVERSITY	D04
002307	OAKLAND UNIVERSITY	B01
002323	UNIVERSITY OF DETROIT	A02
009091	UNIVERSITY OF MICHIGAN	A02
	GRADUATE SCHOOL AT ANN ARBOR	
	GRADUATE SCHOOL AT DEARBORN	
	MEDICAL SCHOOL AT ANN ARBOR	
002329	WAYNE STATE UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002330	WESTERN MICHIGAN UNIVERSITY	A01

FICE CODE		NCES CLASSI-FICATION
	MINNESOTA	
010337	MAYO GRADUATE SCHOOL OF MEDICINE	D03
001761	UNIVERSITY OF MINNESOTA	A02
	GRADUATE SCHOOL AT MINNEAPOLIS	
	GRADUATE SCHOOL AT DULUTH	
	MINNEAPOLIS MEDICAL SCHOOL	
	DULUTH SCHOOL OF MEDICINE	
	MISSISSIPPI	
002423	MISSISSIPPI STATE UNIVERSITY	A02
008764	UNIVERSITY OF MISSISSIPPI	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002441	UNIVERSITY OF SOUTHERN MISSISSIPPI	A01
	MISSOURI	
002477	KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	D02
008766	ST LOUIS UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002474	UNIVERSITY OF HEALTH SCIENCES	D02
002516	UNIVERSITY OF MISSOURI - COLUMBIA	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002518	UNIVERSITY OF MISSOURI - KANSAS CITY	A02
002517	UNIVERSITY OF MISSOURI - ROLLA	D04
002519	UNIVERSITY OF MISSOURI - ST LOUIS	B01
002520	WASHINGTON UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
	MONTANA	
002532	MONTANA STATE UNIVERSITY	B01
002536	UNIVERSITY OF MONTANA	B01
	NEBRASKA	
002542	CREIGHTON UNIVERSITY	B02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002565	UNIVERSITY OF NEBRASKA - LINCOLN	A01
002554	UNIVERSITY OF NEBRASKA - OMAHA	B01
006895	UNIVERSITY OF NEBRASKA MEDICAL CENTER	D02
	NEVADA	
002568	UNIVERSITY OF NEVADA AT RENO	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICAL SCIENCES	
	NEW HAMPSHIRE	
002573	DARTMOUTH COLLEGE	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002589	UNIVERSITY OF NEW HAMPSHIRE	A01
	NEW JERSEY	
008770	FAIRLEIGH DICKINSON UNIVERSITY	B02
	RUTHERFORD CAMPUS	
	TEANECK CAMPUS	
	MADISON CAMPUS	
002621	NEW JERSEY INSTITUTE OF TECHNOLOGY	D04
002627	PRINCETON UNIVERSITY	A01
008771	RUTGERS THE STATE UNIVERSITY	A01
	GRADUATE SCHOOL AT NEW BRUNSWICK	
	GRADUATE SCHOOL AT NEWARK	
	SCHOOL OF CRIMINAL JUSTICE	
002632	SETON HALL UNIVERSITY	B01
002639	STEVENS INSTITUTE OF TECHNOLOGY	D04
002620	UNIV OF MED AND DENT OF NEW JERSEY	D02
	RUTGERS MEDICAL SCHOOL	
	GRAD SCH OF BIOMED SCI/NJ MED SCHOOL	
	NJ SCHOOL OF OSTEOPATHIC MED	
	NEW JERSEY DENTAL SCHOOL	
	NEW JERSEY MEDICAL SCHOOL AT NEWARK	
	NEW MEXICO	
002654	NEW MEXICO INSTITUTE OF MINING AND TECH	B01
008773	NEW MEXICO STATE UNIVERSITY	A01
002663	UNIVERSITY OF NEW MEXICO	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

TABLE II-1.—DOCTORATE-GRANTING INSTITUTIONS IN THE 1983 SURVEY—CON.

FICE CODE	NEW YORK	NCES CLASSIFICATION
002666	ADELPHI UNIVERSITY	A01
002887	ALBANY MEDICAL COLLEGE	D02
002668	ALFRED UNIVERSITY	B01
002699	CLARKSON UNIVERSITY	D04
002707	COLUMBIA UNIVERSITY MAIN DIVISION	A02
	GRADUATE SCHOOL	
	COLLEGE OF PHYS AND SURGEONS	
003979	COLUMBIA UNIVERSITY TEACHERS COLLEGE	D08
008779	CORNELL UNIVERSITY	A02
	GRADUATE SCHOOL	
	MEDICAL COLLEGE	
	GRADUATE SCHOOL OF MEDICAL SCIENCES	
002688	CUNY CITY COLLEGE	B01
004063	CUNY GRADUATE SCHOOL AND UNIV CENTER	A01
002689	CUNY HUNTER COLLEGE	B01
007022	CUNY LEHMAN COLLEGE	B01
002722	FORDHAM UNIVERSITY	A01
002732	HOFSTRA UNIVERSITY	B01
008780	LONG ISLAND UNIVERSITY	B01
	BROOKLYN CENTER	
	C. W. POST CENTER	
	A & M SCHWARTZ COL OF PHARMACY HEA SCI	
002780	NEW SCHOOL FOR SOCIAL RESEARCH	A01
008782	NEW YORK INSTITUTE OF TECHNOLOGY	B02
	GRADUATE SCHOOL	
	NEW YORK COLLEGE OF OSTEOPATHIC MEDICINE	
002784	NEW YORK MEDICAL COLLEGE	D02
002785	NEW YORK UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
	COLLEGE OF DENTISTRY	
008784	PACE UNIVERSITY	C01
002796	POLYTECHNIC INSTITUTE OF NEW YORK	D04
002803	RENSSELAER POLYTECHNIC INSTITUTE	A01
002807	ROCKEFELLER UNIVERSITY	A01
002817	ST BONAVENTURE UNIVERSITY	B01
002823	ST JOHN'S UNIVERSITY	A01
002835	SUNY - ALBANY	A01
002836	SUNY - BINGHAMTON	A01
009554	SUNY - BUFFALO	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002851	SUNY - COLL OF ENV SCIENCE AND FORESTRY	B01
002839	SUNY - DOWNSTATE MEDICAL CENTER	D02
009555	SUNY - STONY BROOK	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002840	SUNY - UPSTATE MEDICAL CENTER	D02
009929	SUNY STATE COLLEGE OF OPTOMETRY	D03
008789	SYRACUSE UNIVERSITY	A01
002889	UNION COLLEGE(NY)	B01
002894	UNIVERSITY OF ROCHESTER	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE AND DENTISTRY	
002903	YESHIVA UNIVERSITY	A02
	GRADUATE SCHOOL	
	ALBERT EINSTEIN COLLEGE OF MEDICINE	
	NORTH CAROLINA	
002920	DUKE UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002923	EAST CAROLINA UNIVERSITY	B02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002972	NORTH CAROLINA STATE UNIV AT RALEIGH	A01
002974	UNIV OF NORTH CAROLINA AT CHAPEL HILL	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
002976	UNIV OF NORTH CAROLINA AT GREENSBORO	A01
002978	WAKE FOREST UNIVERSITY	B02
	GRADUATE SCHOOL	
	BOWMAN GRAY SCHOOL OF MEDICINE	
	NORTH DAKOTA	
009266	NORTH DAKOTA STATE UNIVERSITY	B01
008794	UNIVERSITY OF NORTH DAKOTA	A02

FICE CODE	OHIO	NCES CLASSIFICATION
003009	AIR FORCE INSTITUTE OF TECHNOLOGY	D09
008796	BOWLING GREEN STATE UNIVERSITY	A01
003024	CASE WESTERN RESERVE UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
003032	CLEVELAND STATE UNIVERSITY	B01
008799	KENT STATE UNIVERSITY	A01
007737	MEDICAL COLLEGE OF OHIO AT TOLEDO	D02
002800	MIAMI UNIVERSITY	A01
029045	NE OHIO UNIV MED SCHOOL	D02
008802	OHIO STATE UNIVERSITY	A02
	GRADUATE SCHOOL	
	COLLEGE OF MEDICINE	
008803	OHIO UNIVERSITY	A02
	GRADUATE COLLEGE	
	COLLEGE OF OSTEOPATHIC MEDICINE	
010923	UNION OF EXPERIMENTNG COLLEGES & UNIVS	A01
012310	UNIVERSITY OF AKRON	A01
004805	UNIVERSITY OF CINCINNATI	A02
	GRADUATE SCHOOL	
	COLLEGE OF MEDICINE	
004127	UNIVERSITY OF DAYTON	B01
003131	UNIVERSITY OF TOLEDO	A01
009167	WRIGHT STATE UNIVERSITY	B02
	OKLAHOMA	
008806	OKLAHOMA STATE UNIVERSITY	A02
003985	ORAL ROBERTS UNIVERSITY	B01
008807	UNIVERSITY OF OKLAHOMA	A02
	GRADUATE COLLEGE	
	HEALTH SCIENCE CENTER	
003185	UNIVERSITY OF TULSA	B01
	OREGON	
008856	OREGON GRADUATE CENTER	D10
004882	OREGON HEALTH SCIENCES UNIVERSITY	D02
003210	OREGON STATE UNIVERSITY	A01
003216	PORTLAND STATE UNIVERSITY	B01
003222	UNIVERSITY OF OREGON	A01
	PENNSYLVANIA	
003237	BRYN MAWR COLLEGE	A01
003242	CARNEGIE-MELLON UNIVERSITY	A01
003256	DREXEL UNIVERSITY	B02
003258	DUQUESNE UNIVERSITY	B01
003271	HAHNEMANN UNIVERSITY	D02
003289	LEHIGH UNIVERSITY	A01
008813	PENNSYLVANIA STATE UNIVERSITY	A02
	GRADUATE SCHOOL	
	COLLEGE OF MEDICINE	
003352	PHILA COLLEGE OF OSTEOPATHIC MEDICINE	D02
003353	PHILADELPHIA COLL OF PHARMACY AND SCI	D03
003371	TEMPLE UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
	SCHOOL OF PHARMACY	
	SCHOOL OF DENTISTRY	
003398	THE MEDICAL COLLEGE OF PENNSYLVANIA	D02
003378	THOMAS JEFFERSON UNIVERSITY	D02
003378	UNIVERSITY OF PENNSYLVANIA	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
008815	UNIVERSITY OF PITTSBURGH	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
003388	VILLANOVA UNIVERSITY	B01
	RHODE ISLAND	
003401	BROWN UNIVERSITY	A02
003406	PROVIDENCE COLLEGE	B01
003414	UNIVERSITY OF RHODE ISLAND	A01
	SOUTH CAROLINA	
003425	CLEMSON UNIVERSITY	A01
003438	MEDICAL UNIVERSITY OF SOUTH CAROLINA	D02
008819	UNIVERSITY OF SOUTH CAROLINA	A02
	GRADUATE SCHOOL	
	MEDICAL SCHOOL	
	SOUTH DAKOTA	
003470	SOUTH DAKOTA SCHOOL OF MINES AND TECH	D04
003471	SOUTH DAKOTA STATE UNIVERSITY	B01
003474	UNIVERSITY OF SOUTH DAKOTA	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

TABLE II-1.—DOCTORATE-GRANTING INSTITUTIONS IN THE 1983 SURVEY—CON.

FICE CODE		NCES CLASSIFICATION
	TENNESSEE	
003487	EAST TENNESSEE STATE UNIVERSITY	B01
003506	MEHARRY MEDICAL COLLEGE	D02
003509	MEMPHIS STATE UNIVERSITY	A01
003523	TENNESSEE TECHNOLOGICAL UNIVERSITY	B01
003530	UNIVERSITY OF TENNESSEE AT KNOXVILLE	A02
006725	UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	D02
003535	VANDERBILT UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
	TEXAS	
004948	BAYLOR COLLEGE OF DENTISTRY	D02
004949	BAYLOR COLLEGE OF MEDICINE	D02
006967	BAYLOR UNIVERSITY	B01
003555	EAST TEXAS STATE UNIVERSITY	B01
003581	LAMAR UNIVERSITY	B01
003594	NORTH TEXAS STATE UNIVERSITY	A01
003604	RICE UNIVERSITY	A01
003606	SAM HOUSTON STATE UNIVERSITY	B01
003613	SOUTHERN METHODIST UNIVERSITY	A01
003624	STEPHEN F. AUSTIN STATE UNIVERSITY	B01
003632	TEXAS A & M UNIVERSITY	A02
003636	TEXAS CHRISTIAN UNIVERSITY	B01
009768	TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	D02
003644	TEXAS TECH UNIVERSITY	A01
	GRADUATE SCHOOL	
	HEALTH SCIENCES CENTER	
003646	TEXAS WOMAN'S UNIVERSITY	A01
003656	UNIV OF TEXAS AT ARLINGTON	B01
003658	UNIV OF TEXAS AT AUSTIN	A01
009741	UNIV OF TEXAS AT DALLAS	A01
003661	UNIV OF TEXAS AT EL PASO	B01
003660	UNIV OF TEXAS HLTH SCI CTR AT DALLAS	D02
011618	UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	D02
003659	UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	D02
004952	UNIV OF TEXAS MED BRANCH AT GALVESTON	D02
003652	UNIVERSITY OF HOUSTON	A01
003652	UNIVERSITY OF HOUSTON-UNIVERSITY PARK	A01
003657	UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	D02*
	UTAH	
012305	BRIGHAM YOUNG UNIVERSITY	A01
003675	UNIVERSITY OF UTAH	A02
	GRADUATE SCHOOL	
	COLLEGE OF MEDICINE	
003677	UTAH STATE UNIVERSITY	A01
	VERMONT	
003696	UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	A02
	GRADUATE SCHOOL	
	COLLEGE OF MEDICINE	
	VIRGINIA	
008828	COLLEGE OF WILLIAM AND MARY	B01
010338	EASTERN VIRGINIA MEDICAL SCHOOL	D02
003749	GEORGE MASON UNIVERSITY	B01
003717	INSTITUTE OF TEXTILE TECHNOLOGY	D04*
003728	OLD DOMINION UNIVERSITY	B01
003745	UNIVERSITY OF VIRGINIA	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
003735	VIRGINIA COMMONWEALTH UNIVERSITY	A02
	GRADUATE SCHOOL	
	MEDICAL COLLEGE OF VIRGINIA	
003754	VIRGINIA POLYTECHNIC INST AND STATE UNIV	A01
	WASHINGTON	
003798	UNIVERSITY OF WASHINGTON	A02
	GRADUATE SCHOOL	
	SCHOOL OF PUBLIC HEALTH AND COMM MED	
	SCHOOL OF MEDICINE	
003800	WASHINGTON STATE UNIVERSITY	A02
	WEST VIRGINIA	
003815	MARSHALL UNIVERSITY	B02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
011245	WEST VIRGINIA SCH OF OSTEOPATHIC MED	D02
003827	WEST VIRGINIA UNIVERSITY	A02
	GRADUATE SCHOOL	
	SCHOOL OF MEDICINE	
	WISCONSIN	
005010	INSTITUTE OF PAPER CHEMISTRY	D10
003863	MARQUETTE UNIVERSITY	A02
008296	MEDICAL COLLEGE OF WISCONSIN	D02
003895	UNIVERSITY OF WISCONSIN - MADISON	A02
	GRADUATE SCHOOL	
	MEDICAL SCHOOL	
003896	UNIVERSITY OF WISCONSIN - MILWAUKEE	A01
	WYOMING	
003932	UNIVERSITY OF WYOMING	A01
	PUERTO RICO	
029063	CARIBBEAN CTR FOR ADV STD	D10
003936	CATHOLIC UNIVERSITY OF PUERTO RICO	B01
029268	PONCE SCHOOL OF MEDICINE	D11
003944	UNIVERSITY OF PUERTO RICO	B01
007108	UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	B01
003945	UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	D02

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TABLE II-2.—MASTER'S-GRANTING INSTITUTIONS IN THE 1983 SURVEY

FICE CODE		NCES CLASSIFICATION
	ALABAMA	
001002	ALABAMA A & M UNIVERSITY	B01
001005	ALABAMA STATE UNIVERSITY	B01
001020	JACKSONVILLE STATE UNIVERSITY	B01
001036	SAMFORD UNIVERSITY	B01
001049	TROY STATE UNIVERSITY AT MONTGOMERY	B01
001050	TUSKEGEE INSTITUTE	B02
001004	UNIVERSITY OF MONTEVALLO	B0[illegible]
001016	UNIVERSITY OF NORTH ALABAMA	B0[illegible]
	ALASKA	
029095	UNIVERSITY OF ALASKA AT ANCHORAGE	C01
029096	UNIVERSITY OF ALASKA SOUTHEAST	C01
	ARKANSAS	
008701	ARKANSAS STATE UNIVERSITY	B01
001098	HENDERSON STATE UNIVERSITY	B01
001101	UNIVERSITY OF ARKANSAS AT LITTLE ROCK	B01
001092	UNIVERSITY OF CENTRAL ARKANSAS	B01
	CALIFORNIA	
001117	AZUSA PACIFIC UNIVERSITY	B01
001143	CALIF POLY STATE UNIV AT SAN LUIS OBISPO	B01
001142	CALIF STATE COLLEGE AT SAN BERNARDINO	B01
001157	CALIF STATE COLLEGE OF STANISLAUS	B01
001144	CALIF STATE POLYTECHNIC UNIV AT POMONA	B01
001141	CALIF STATE UNIV AT DOMINGUEZ HILLS	B01
001137	CALIF STATE UNIV AT FULLERTON	B01
001138	CALIF STATE UNIV AT HAYWARD	B01
001139	CALIF STATE UNIV AT LONG BEACH	B01
001140	CALIF STATE UNIV AT LOS ANGELES	B01
001146	CALIF STATE UNIVERSITY AT CHICO	B01
001147	CALIF STATE UNIVERSITY AT FRESNO	B01
001153	CALIF STATE UNIVERSITY AT NORTHRIDGE	B01
001150	CALIF STATE UNIVERSITY AT SACRAMENTO	B01
001133	CALIFORNIA LUTHERAN COLLEGE	B01
007993	CALIFORNIA STATE COLLEGE AT BAKERSFIELD	B01
001164	CHAPMAN COLLEGE	B01
001196	DOMINICAN COLLEGE OF SAN RAFAEL	B01
001171	HARVEY MUDD COLLEGE	D04
001149	HUMBOLDT STATE UNIVERSITY	B01
004484	JOHN F KENNEDY UNIVERSITY	B01
011649	LOYOLA MARYMOUNT UNIVERSITY	B01
001241	MONTEREY INST OF INTL STUDIES	B01
[illegible]1460	NATIONAL UNIVERSITY	D05
[illegible]1248	NORTHROP UNIVERSITY	D04
[illegible]1249	OCCIDENTAL COLLEGE	C01
001257	PACIFIC STATES UNIVERSITY	C01•
001264	PEPPERDINE UNIVERSITY	B01
001154	SAN FRANCISCO STATE UNIVERSITY	B01
001155	SAN JOSE STATE UNIVERSITY	B01
001156	SONOMA STATE UNIVERSITY	B01
001216	UNIVERSITY OF LA VERNE	B01
001322	UNIVERSITY OF REDLANDS	D05
010395	UNIVERSITY OF SAN DIEGO	B01
001325	UNIVERSITY OF SAN FRANCISCO	B01
008716	WEST COAST UNIVERSITY	B01
001342	WHITTIER COLLEGE	B01
	COLORADO	
001345	ADAMS STATE UNIVERSITY	B01
001372	WESTERN STATE COLLEGE OF COLORADO	B01
	CONNECTICUT	
001[illegible]78	CENTRAL CONNECTICUT STATE UNIVERSITY	B01
001379	CONNECTICUT COLLEGE	C01
001402	QUINNIPIAC COLLEGE	C01
001406	SOUTHERN CONNECTICUT STATE UNIVERSITY	B01
001409	ST JOSEPH COLLEGE	B01
002804	THE HARTFORD GRADUATE CENTER	D05
001414	TRINITY COLLEGE	B01
001416	UNIVERSITY OF BRIDGEPORT	B01
001422	UNIVERSITY OF HARTFORD	B01
001397	UNIVERSITY OF NEW HAVEN	B01
001380	WESTERN CONNECTICUT STATE UNIVERSITY	B01
	DISTRICT OF COLUMBIA	
001443	GALLAUDET COLLEGE	B01
029100	UNIVERSITY OF THE DISTRICT OF COLUMBIA	B01
	FLORIDA	
001466	BARRY UNIVERSITY	B01
001468	BISCAYNE COLLEGE	B01
001480	FLORIDA A & M UNIVERSITY	B01
009635	FLORIDA INTERNATIONAL UNIVERSITY	B01
001495	JACKSONVILLE UNIVERSITY	B01
001515	ROLLINS COLLEGE	B01
001531	STETSON UNIVERSITY	B01
003955	UNIVERSITY OF WEST FLORIDA	B01

FICE CODE		NCES CLASSIFICATION
	GEORGIA	
001546	ARMSTRONG STATE COLLEGE	B01
001552	AUGUSTA COLLEGE	B01
001602	GEORGIA COLLEGE	B01
001572	GEORGIA SOUTHERN COLLEGE	B01
001599	VALDOSTA STATE COLLEGE	B01
001601	WEST GEORGIA COLLEGE	B01
	ILLINOIS	
001641	BRADLEY UNIVERSITY	B01
001694	CHICAGO STATE UNIVERSITY	B01
001674	EASTERN ILLINOIS UNIVERSITY	B01
001683	GEORGE WILLIAMS COLLEGE	B01
009145	GOVERNORS STATE UNIVERSITY	B01
010919	MIDWEST COLLEGE OF ENGINEERING	D04
001693	NORTHEASTERN ILLINOIS UNIVERSITY	B01
001749	ROOSEVELT UNIVERSITY	B01
009333	SANGAMON STATE UNIVERSITY	B01
001759	SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	B02
001780	WESTERN ILLINOIS UNIVERSITY	B01
	INDIANA	
001788	BUTLER UNIVERSITY	B01
001792	DE PAUW UNIVERSITY	B01
001804	INDIANA CENTRAL UNIVERSITY	B01
001830	ROSE-HULMAN INSTITUTE OF TECHNOLOGY	D04
001832	SAINT FRANCIS COLLEGE	B01
001795	UNIVERSITY OF EVANSVILLE	B01
001842	VALPARAISO UNIVERSITY	B01
	IOWA	
001860	DRAKE UNIVERSITY	B01
001873	LORAS COLLEGE	C01
	KANSAS	
001927	EMPORIA STATE UNIVERSITY - KANSAS	B01
001915	FORT HAYS STATE UNIVERSITY	B01
001926	PITTSBURG STATE UNIVERSITY	B01
001949	WASHBURN UNIVERSITY OF TOPEKA	C01
	KENTUCKY	
001963	EASTERN KENTUCKY UNIVERSITY	B01
001976	MOREHEAD STATE UNIVERSITY	B01
001977	MURRAY STATE UNIVERSITY	B01
001960	SPALDING UNIVERSITY	B01
002002	WESTERN KENTUCKY UNIVERSITY	B01
	LOUISIANA	
002016	LOYOLA UNIVERSITY IN NEW ORLEANS	B01
002017	MCNEESE STATE UNIVERSITY	B01
002005	NICHOLLS STATE UNIVERSITY	B01
002021	NORTHWESTERN STATE UNIV OF LOUISIANA	B01
002024	SOUTHEASTERN LOUISIANA UNIVERSITY	B01
002025	SOUTHERN UNIVERSITY A & M COLLEGE	B01
	MARYLAND	
002068	COPPIN STATE COLLEGE	C01
002072	FROSTBURG STATE COLLEGE	B01
002076	HOOD COLLEGE	B01
002078	LOYOLA COLLEGE	B01
002083	MORGAN STATE UNIVERSITY	B01
002099	TOWSON STATE UNIVERSITY	B01
002102	UNIVERSITY OF BALTIMORE	B01
002108	WASHINGTON COLLEGE	C01
	MASSACHUSETTS	
002114	AMERICAN INTERNATIONAL COLLEGE	B01
002117	ANNA MARIA COLLEGE	B01
002118	ASSUMPTION COLLEGE	B01
002183	BRIDGEWATER STATE COLLEGE	B01
002146	EMERSON COLLEGE	B01
002185	FRAMINGHAM STATE COLLEGE	B01
002192	MOUNT HOLYOKE COLLEGE	C01
002188	SALEM STATE COLLEGE	B01
002210	SOUTHEASTERN MASSACHUSETTS UNIVERSITY	B01
002218	SUFFOLK UNIVERSITY	B01
002222	UNIVERSITY OF MASSACHUSETTS-BOSTON	C01
002226	WESTERN NEW ENGLAND COL	B01
002229	WILLIAMS COLLEGE	C01
002190	WORCESTER STATE COLLEGE	B01
	MICHIGAN	
002238	ANDREWS UNIVERSITY	B01
002259	EASTERN MICHIGAN UNIVERSITY	B01
002268	GRAND VALLEY STATE COLLEGES	B01
002301	NORTHERN MICHIGAN UNIVERSITY	B01

• NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

TABLE II-1.—DOCTORATE-GRANTING INSTITUTIONS IN THE 1983 SURVEY—CON.

FICE CODE		NCES CLASSIFICATION
	MINNESOTA	
002336	BEMIDJI STATE UNIVERSITY	B01
002360	MANKATO STATE UNIVERSITY	B01
002367	MOORHEAD STATE UNIVERSITY	B01
002377	ST CLOUD STATE UNIVERSITY	B01
002380	ST MARY'S COLLEGE	B01
	MISSISSIPPI	
002410	JACKSON STATE UNIVERSITY	B01
002415	MISSISSIPPI COLLEGE	B01
002422	MISSISSIPPI UNIVERSITY FOR WOMEN	B01
	MISSOURI	
002454	CENTRAL MISSOURI STATE UNIVERSITY	B01
002495	NORTHEAST MISSOURI STATE UNIVERSITY	B01
002496	NORTHWEST MISSOURI STATE UNIVERSITY	B01
002501	SOUTHEAST MISSOURI STATE UNIVERSITY	B01
002503	SOUTHWEST MISSOURI STATE UNIVERSITY	B01
	MONTANA	
002531	MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	D04
	NEBRASKA	
002551	KEARNEY STATE COLLEGE	B01
	NEVADA	
002569	UNIVERSITY OF NEVADA AT LAS VEGAS	B01
	NEW HAMPSHIRE	
002586	RIVIER COLLEGE	B01
	NEW JERSEY	
002603	DREW UNIVERSITY	A01
002622	KEAN COLLEGE OF NEW JERSEY	B01
002616	MONMOUTH COLLEGE(NJ)	B01
002617	MONTCLAIR STATE COLLEGE	B01
002642	TRENTON STATE COLLEGE	B01
002625	WILLIAM PATERSON COLLEGE	B01
	NEW MEXICO	
008772	EASTERN NEW MEXICO UNIVERSITY	B01
002653	NEW MEXICO HIGHLANDS UNIVERSITY	B01
	NEW YORK	
002704	COLLEGE OF NEW ROCHELLE	B01
002705	COLLEGE OF ST ROSE	B01
002710	COOPER UNION	D04
004766	CUNY BERNARD BARUCH COLLEGE	D05
002687	CUNY BROOKLYN COLLEGE	B01
029040	CUNY COLLEGE OF STATEN ISLAND ST GEORGE	B01
002693	CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	B01
002690	CUNY QUEENS COLLEGE	B01
002737	IONA COLLEGE	B01
002739	ITHACA COLLEGE	B01
002758	MANHATTAN COLLEGE	C01
002765	MARIST COLLEGE	B01
002788	NIAGARA UNIVERSITY	B01
002798	PRATT INSTITUTE	B01
002806	ROCKESTER INSTITUTE OF TECHNOLOGY	B01
008786	RUSSELL SAGE COLLEGE	B01
002813	SARAH LAWRENCE COLLEGE	B01
002841	SUNY COLLEGE AT BROCKPORT	B01
002842	SUNY COLLEGE AT BUFFALO	B01
002843	SUNY COLLEGE AT CORTLAND	B01
002844	SUNY COLLEGE AT FREDONIA	B01
002845	SUNY COLLEGE AT GENESEO	B01
002846	SUNY COLLEGE AT NEW PALTZ	B01
002847	SUNY COLLEGE AT ONEONTA	B01
002848	SUNY COLLEGE AT OSWEGO	B01
002849	SUNY COLLEGE AT PLATTSBURGH	B01
002850	SUNY COLLEGE AT POTSDAM	C01
002895	VASSAR COLLEGE	B01
002899	WAGNER COLLEGE	
	NORTH CAROLINA	
003906	APPALACHIAN STATE UNIVERSITY	B01
002905	NORTH CAROLINA A & T STATE UNIVERSITY	B01
002950	NORTH CAROLINA CENTRAL UNIVERSITY	B01
002975	UNIV OF NORTH CAROLINA AT CHARLOTTE	B01
002984	UNIVERSITY OF NORTH CAROLINA/WILMINGTON	C01
002981	WESTERN CAROLINA UNIVERSITY	B01
	OHIO	
008795	ANTIOCH UNIVERSITY	B01
003050	JOHN CARROLL UNIVERSITY	B01
003144	XAVIER UNIVERSITY	B01
002145	YOUNGSTOWN STATE UNIVERSITY	B01
	OKLAHOMA	
003154	EAST CENTRAL OKLAHOMA STATE UNIVERSITY	B01
003181	SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	B01
	OREGON	
003212	PACIFIC UNIVERSITY	C01
003219	SOUTHERN OREGON STATE COLLEGE	B01
003224	UNIVERSITY OF PORTLAND	B01
003209	WESTERN OREGON STATE COLLEGE	D08
	PENNSYLVANIA	
003315	BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	B01
003238	BUCKNELL UNIVERSITY	B01
003316	CALIFORNIA UNIVERSITY OF PENNSYLVANIA	B01
003317	CHEYNEY UNIVERSITY OF PENNSYLVANIA	B01
009234	CLARION UNIVERSITY OF PENNSYLVANIA	B01
003320	EAST STROUDSBURG UNIV OF PENNSYLVANIA	B01
003321	EDINBORO UNIVERSITY OF PENNSYLVANIA	B01
003266	GANNON UNIVERSITY	B01
008810	INDIANA UNIVERSITY OF PENNSYLVANIA	B01
003322	KUTZTOWN UNIVERSITY OF PENNSYLVANIA	B01
003324	MANSFIELD UNIVERSITY OF PENNSYLVANIA	B01
003296	MARYWOOD COLLEGE	B01
003325	MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	B01
003326	SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	B01
003327	SLIPPERY ROCK UNIVERSITY OF PENNSYLVANIA	B01
003367	ST JOSEPH'S UNIVERSITY	C01
003370	SWARTHMORE COLLEGE	B01
003384	UNIVERSITY OF SCRANTON	B01
003328	WEST CHESTER UNIVERSITY OF PENNSYLVANIA	B01
003313	WIDENER UNIVERSITY	B01
003394	WILKES COLLEGE	B01
	RHODE ISLAND	
003407	RHODE ISLAND COLLEGE	B01
	SOUTH CAROLINA	
003423	CITADEL MILITARY COLL OF SOUTH CAROLINA	B01
003428	COLLEGE OF CHARLESTON	B01
003434	FURMAN UNIVERSITY	B01
003456	WINTHROP COLLEGE	B01
	TENNESSEE	
003478	AUSTIN PEAY STATE UNIVERSITY	B01
003490	FISK UNIVERSITY	C01
003510	MIDDLE TENNESSEE STATE UNIVERSITY	B01
003522	TENNESSEE STATE UNIVERSITY	B01
003529	UNIVERSITY OF TENNESSEE AT CHATTANOOGA	B01
	TEXAS	
003537	ABILENE CHRISTIAN UNIVERSITY	B01
011854	AMERICAN TECHNOLOGICAL UNIVERSITY	B01
003541	ANGELO STATE UNIVERSITY	B01
011161	CORPUS CHRISTI STATE UNIVERSITY	B01
003578	INCARNATE WORD COLLEGE	B01
003592	MIDWESTERN STATE UNIVERSITY	B01
003599	PAN AMERICAN UNIVERSITY	B01
003630	PRAIRIE VIEW A & M UNIVERSITY	B01
003615	SOUTHWEST TEXAS STATE UNIVERSITY	B01
003623	ST MARY'S UNIVERSITY OF SAN ANTONIO	B01
003625	SUL ROSS STATE UNIVERSITY	B01
003631	TARLETON STATE UNIVERSITY	B01
003639	TEXAS A & I UNIVERSITY	B01
003642	TEXAS SOUTHERN UNIVERSITY	B01
003647	TRINITY UNIVERSITY	B01
011711	UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	B01
010115	UNIVERSITY OF TEXAS AT SAN ANTONIO	B01
029164	UNIVERSITY OF TEXAS AT TYLER	B01
009930	UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	B01
003665	WEST TEXAS STATE UNIVERSITY	B01
	VERMONT	
003686	GODDARD COLLEGE	B01
003691	MIDDLEBURY COLLEGE	B01
	VIRGINIA	
003714	HAMPTON INSTITUTE	B01
003715	HOLLINS COLLEGE	B01
003721	JAMES MADISON UNIVERSITY	B01
003720	LYNCHBURG COLLEGE	B01
003732	RADFORD UNIVERSITY	B01
003744	UNIVERSITY OF RICHMOND	B01
003764	VIRGINIA STATE UNIVERSITY	B01

• NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

TABLE II-2.—MASTER'S-GRANTING INSTITUTIONS IN THE 1983 SURVEY—CON.

FICE CODE		NCES CLASSI-FICATION
	WASHINGTON	
003771	CENTRAL WASHINGTON UNIVERSITY	B01
003775	EASTERN WASHINGTON UNIVERSITY	B01
003785	PACIFIC LUTHERAN UNIVERSITY	B01
003790	SEATTLE UNIVERSITY	B01
003797	UNIVERSITY OF PUGET SOUND	B01
003799	WALLA WALLA COLLEGE	C01
003802	WESTERN WASHINGTON UNIVERSITY	B01
003804	WHITWORTH COLLEGE	B01
	WEST VIRGINIA	
006869	WEST VIRGINIA COLLEGE OF GRAD STUDIES	D08
003825	WEST VIRGINIA INSTITUTE OF TECHNOLOGY	C01
	WISCONSIN	
003868	MILWAUKEE SCHOOL OF ENGINEERING	D04
003917	UNIVERSITY OF WISCONSIN - EAU CLAIRE	B01
003899	UNIVERSITY OF WISCONSIN - GREEN BAY	B01
003919	UNIVERSITY OF WISCONSIN - LA CROSSE	B01
009630	UNIVERSITY OF WISCONSIN - OSHKOSH	B01
003921	UNIVERSITY OF WISCONSIN - PLATTEVILLE	B01
003923	UNIVERSITY OF WISCONSIN - RIVER FALLS	B01
003924	UNIVERSITY OF WISCONSIN - STEVENS POINT	B01
003915	UNIVERSITY OF WISCONSIN - STOUT	B01
003926	UNIVERSITY OF WISCONSIN - WHITEWATER	B01
	GUAM	
003935	UNIVERSITY OF GUAM	B01
	PUERTO RICO	
005031	WORLD UNIVERSITY	B01

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

section iii

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FIELD	ALL INSTITUTIONS			DOCTORATE-GRANTING			MASTER'S-GRANTING		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL FIELDS	413,564	263,800	149,764	358,276	243,646	114,630	55,288	20,154	35,134
ENGINEERING	92,717	55,250	37,487	85,973	53,553	32,420	6,744	1,677	5,067
AEROSPACE	2,408	1,840	568	2,376	1,825	551	32	15	17
AGRICULTURAL	969	766	203	969	766	203	0	0	0
BIOMEDICAL	1,244	1,031	213	1,185	1,012	173	59	19	40
CHEMICAL	7,563	5,869	1,694	7,352	5,790	1,562	211	79	132
CIVIL	15,406	10,242	5,164	14,506	9,957	4,549	900	285	615
ELECTRICAL	24,780	13,192	11,588	23,112	12,843	10,269	1,668	349	1,319
ENGINEERING SCIENCE	2,281	1,364	917	1,981	1,339	642	300	25	275
INDUSTRIAL	10,641	4,130	6,511	9,733	3,917	5,816	908	213	695
MECHANICAL	12,941	8,351	4,590	12,119	8,199	3,920	822	152	670
METALLURGICAL/MATERIALS	3,445	2,704	741	3,336	2,686	650	109	18	91
MINING	524	428	96	498	404	94	26	24	2
NUCLEAR	1,203	1,052	151	1,203	1,052	151	0	0	0
PETROLEUM	737	620	117	724	607	117	13	13	0
ENGINEERING, N.E.C.	8,575	3,641	4,934	6,879	3,156	3,723	1,696	485	1,211
PHYSICAL SCIENCES	29,448	25,197	4,251	27,701	24,476	3,225	1,747	721	1,026
ASTRONOMY	618	585	33	618	585	33	0	0	0
CHEMISTRY	17,819	15,041	2,778	16,535	14,493	2,042	1,284	548	736
PHYSICS	10,785	9,479	1,306	10,489	9,347	1,142	296	132	164
PHYSICAL SCIENCES, N.E.C.	226	92	134	59	51	8	167	41	126
ENVIRONMENTAL SCIENCES	15,625	12,051	3,574	14,283	11,428	2,855	1,342	623	719
ATMOSPHERIC SCIENCES	896	785	111	884	778	106	12	7	5
GEOSCIENCES	10,321	8,203	2,118	9,686	7,908	1,778	635	295	340
OCEANOGRAPHY	2,117	1,612	505	1,961	1,547	414	156	65	91
ENVIRONMENTAL SCIENCES, N.E.C.	2,291	1,451	840	1,752	1,195	557	539	256	283
MATHEMATICAL/COMPUTER SCIENCES	41,757	21,660	19,697	33,465	19,581	13,884	7,892	2,079	5,813
COMPUTER SCIENCE	23,843	10,678	13,165	18,522	9,258	9,264	5,321	1,420	3,901
MATHEMATICS AND APPLIED MATHEMATICS	15,487	9,417	6,070	13,034	8,766	4,268	2,453	651	1,802
STATISTICS	2,027	1,565	462	1,909	1,557	352	118	8	110
LIFE SCIENCES	103,899	70,205	33,694	91,295	65,185	26,110	12,404	5,020	7,584
AGRICULTURAL SCIENCES	12,290	9,836	2,454	11,515	9,397	2,118	775	439	336
BIOLOGICAL SCIENCES	46,208	37,186	9,022	41,673	35,263	6,410	4,535	1,923	2,612
ANATOMY	1,053	937	116	1,053	937	116	0	0	0
BIOCHEMISTRY	4,271	4,041	230	4,231	4,015	216	40	26	14
BIOLOGY	13,292	9,208	4,084	9,724	7,686	2,038	3,568	1,522	2,046
BIOMETRY/EPIDEMIOLOGY	1,156	877	279	1,156	877	279	0	0	0
BIOPHYSICS	456	443	13	456	443	13	0	0	0
BOTANY	3,450	3,043	407	3,405	3,013	392	45	30	15
CELL BIOLOGY	1,173	1,129	44	1,173	1,129	44	0	0	0
ECOLOGY	1,007	844	163	962	835	127	45	9	36
ENTOMOLOGY/PARASITOLOGY	1,475	1,305	170	1,475	1,305	170	0	0	0
GENETICS	1,068	964	71	986	919	67	49	45	4
MICROBIOLOGY	4,224	3,668	556	4,099	3,644	455	125	24	101
NUTRITION	4,395	3,015	1,380	4,096	2,895	1,201	299	120	179
PATHOLOGY	1,502	1,073	429	1,459	1,068	391	43	5	38
PHARMACOLOGY	2,097	1,958	139	2,091	1,956	135	6	2	4
PHYSIOLOGY	2,020	1,792	228	2,020	1,792	228	0	0	0
ZOOLOGY	2,463	2,085	378	2,423	2,058	365	40	27	13
BIOSCIENCES, N.E.C.	1,139	804	335	864	691	173	275	113	162
HEALTH SCIENCES	45,401	23,183	22,218	38,107	20,525	17,582	7,294	2,658	4,636
ANESTHESIOLOGY	43	27	16	43	27	16	0	0	0
CANCER/ONCOLOGY	74	73	1	74	73	1	0	0	0
CARDIOLOGY	34	24	10	3	3	0	31	21	10
DENTISTRY	816	728	88	816	728	88	0	0	0
ENDOCRINOLOGY	64	64	0	64	64	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	10	9	1	10	9	1	0	0	0
NEUROLOGY	261	252	9	247	244	3	14	14	0
NURSING	16,945	6,204	10,741	14,924	5,717	9,207	2,021	487	1,534
OBSTETRICS/GYNECOLOGY	17	15	2	17	15	2	0	0	0
OPHTHALMOLOGY	10	7	3	10	7	3	0	0	0
OTORHINOLARYNGOLOGY	6	5	1	6	5	1	0	0	0
PEDIATRICS	151	138	13	151	138	13	0	0	0
PHARMACEUTICAL SCIENCES	2,614	1,743	871	2,585	1,728	857	29	15	14
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	6,681	3,956	2,725	6,494	3,921	2,573	187	35	152
PSYCHIATRY	149	80	69	149	80	69	0	0	0
PULMONARY DISEASE	2	2	0	2	2	0	0	0	0
RADIOLOGY	231	169	62	231	169	62	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	8,851	5,404	3,447	6,790	4,439	2,351	2,061	965	1,096
SURGERY	95	73	22	95	73	22	0	0	0
VETERINARY SCIENCES	466	363	103	440	337	103	26	26	0
CLINICAL MEDICINE, N.E.C.	739	367	372	409	293	116	330	74	256
HEALTH RELATED, N.E.C.	7,142	3,474	3,668	4,547	2,453	2,094	2,595	1,021	1,574
PSYCHOLOGY	41,134	26,764	14,370	29,095	21,327	7,768	12,039	5,437	6,602
SOCIAL SCIENCES	89,384	52,693	36,691	76,464	48,096	28,368	12,920	4,597	8,323
AGRICULTURAL ECONOMICS	2,295	2,047	248	2,237	1,994	243	58	53	5
ANTHROPOLOGY	5,693	3,998	1,695	5,448	3,924	1,524	245	74	171
ECONOMICS	13,587	9,281	4,306	12,440	8,925	3,515	1,147	356	791
[illegible]	3,060	2,202	858	2,627	2,015	612	433	187	246
[illegible]	253	229	24	253	229	24	0	0	0
[illegible] SCIENCE	3,022	2,375	647	2,813	2,316	497	209	59	150
LINGUISTICS	28,275	13,481	14,794	22,381	11,769	10,612	5,894	1,712	4,182
POLITICAL SCIENCE	6,951	4,815	2,136	6,391	4,582	1,809	560	233	327
SOCIOLOGY	1,182	671	511	1,014	596	418	168	75	93
SOCIOLOGY/ANTHROPOLOGY	25,066	13,594	11,472	20,860	11,746	9,114	4,206	1,848	2,358
SOCIAL SCIENCES, N.E.C.									

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-2. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, TYPE OF CONTROL, SEX, AND LEVEL OF DEPARTMENT: 1983

FIELD	TOTAL	TYPE OF CONTROL		SEX		LEVEL OF DEPARTMENT	
		PUBLIC	PRIVATE	MEN	WOMEN	DOCTORATE	MASTER'S
TOTAL, ALL FIELDS	413,564	279,406	134,158	260,072	153,492	281,389	132,175
ENGINEERING	92,717	58,100	34,617	82,483	10,234	71,557	21,160
AEROSPACE	2,408	1,716	692	2,283	125	2,259	149
AGRICULTURAL	969	916	53	896	73	885	84
BIOMEDICAL	1,244	702	542	974	270	1,133	111
CHEMICAL	7,563	5,057	2,506	6,547	1,016	7,029	534
CIVIL	15,406	10,715	4,691	13,388	2,018	12,350	3,056
ELECTRICAL	24,780	13,684	11,094	22,837	1,943	21,026	3,754
ENGINEERING SCIENCE	2,281	1,387	894	1,990	291	1,476	805
INDUSTRIAL	10,641	5,036	5,605	8,721	1,920	4,066	6,575
MECHANICAL	12,941	8,500	4,441	12,135	806	11,143	1,798
METALLURGICAL/MATERIALS	3,445	2,024	1,421	2,998	447	3,263	182
MINING	524	456	68	477	47	357	167
NUCLEAR	1,203	963	240	1,119	84	1,129	74
PETROLEUM	737	464	273	665	72	688	49
ENGINEERING, N.E.C.	8,575	6,478	2,097	7,453	1,122	4,753	3,822
PHYSICAL SCIENCES	29,448	21,003	8,445	23,575	5,873	26,189	3,259
ASTRONOMY	618	419	199	526	92	606	12
CHEMISTRY	17,819	12,925	4,894	13,305	4,514	15,695	2,124
PHYSICS	10,785	7,433	3,352	9,588	1,197	9,832	953
PHYSICAL SCIENCES, N.E.C.	226	226	0	156	70	56	170
ENVIRONMENTAL SCIENCES	15,625	13,139	2,486	11,652	3,973	11,998	3,627
ATMOSPHERIC SCIENCES	896	843	53	766	130	836	60
GEOSCIENCES	10,321	8,556	1,765	7,808	2,513	7,865	2,456
OCEANOGRAPHY	2,117	1,813	304	1,545	572	1,945	172
ENVIRONMENTAL SCIENCES, N.E.C.	2,291	1,927	364	1,533	758	1,352	939
MATHEMATICAL/COMPUTER SCIENCES	41,357	26,748	14,609	29,421	11,936	23,282	18,075
COMPUTER SCIENCE	23,843	14,358	9,485	17,151	6,692	11,645	12,198
MATHEMATICS AND APPLIED MATHEMATICS	15,487	10,731	4,756	10,844	4,643	9,936	5,551
STATISTICS	2,027	1,659	368	1,426	601	1,701	326
LIFE SCIENCES	103,899	78,558	25,341	46,836	57,063	69,238	34,661
AGRICULTURAL SCIENCES	12,290	11,941	349	9,183	3,107	9,868	2,422
BIOLOGICAL SCIENCES	46,208	34,377	11,831	26,633	19,575	37,944	8,264
ANATOMY	1,053	691	362	643	410	1,027	26
BIOCHEMISTRY	4,271	2,839	1,432	2,678	1,593	4,188	83
BIOLOGY	13,292	9,405	3,887	7,677	5,615	7,819	5,473
BIOMETRY/EPIDEMIOLOGY	1,156	639	517	547	609	1,096	60
BIOPHYSICS	456	251	205	340	116	453	3
BOTANY	3,450	3,183	267	2,201	1,249	3,208	242
CELL BIOLOGY	1,173	645	528	773	400	1,147	26
ECOLOGY	1,007	926	81	666	341	956	51
ENTOMOLOGY/PARASITOLOGY	1,475	1,426	49	1,090	385	1,420	55
GENETICS	1,035	713	322	512	523	984	51
MICROBIOLOGY	4,224	3,153	1,071	2,358	1,866	3,909	315
NUTRITION	4,395	3,451	944	1,329	3,066	3,392	1,003
PATHOLOGY	1,502	967	535	896	606	1,237	265
PHARMACOLOGY	2,097	1,408	689	1,345	752	2,045	52
PHYSIOLOGY	2,020	1,391	629	1,314	706	1,935	85
ZOOLOGY	2,463	2,296	167	1,627	836	2,402	61
BIOSCIENCES, N.E.C.	1,139	993	146	637	502	726	413
HEALTH SCIENCES	45,401	32,240	13,161	11,020	34,381	21,426	23,975
ANESTHESIOLOGY	63	26	17	18	25	1	42
CANCER/ONCOLOGY	74	56	18	47	27	74	0
CARDIOLOGY	34	0	34	17	17	3	31
DENTISTRY	816	541	275	639	177	135	681
ENDOCRINOLOGY	64	60	4	33	31	64	0
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	10	7	3	2	8	4	6
NEUROLOGY	261	149	112	189	72	246	15
NURSING	16,945	12,121	4,824	747	16,198	7,116	9,829
OBSTETRICS/GYNECOLOGY	17	14	3	11	6	16	1
OPHTHALMOLOGY	10	8	2	5	5	9	1
OTORHINOLARYNGOLOGY	6	5	1	5	1	0	6
PEDIATRICS	151	86	65	32	119	114	37
PHARMACEUTICAL SCIENCES	2,614	1,763	851	1,760	854	2,392	223
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	6,681	4,096	2,585	2,833	3,848	4,588	2,093
PSYCHIATRY	149	127	22	70	79	147	2
PULMONARY DISEASE	2	2	0	1	1	2	0
RADIOLOGY	231	190	41	185	46	147	84
SPEECH PATHOLOGY/AUDIOLOGY	8,851	7,582	1,269	1,199	7,652	4,306	4,545
SURGERY	95	68	27	76	19	47	48
VETERINARY SCIENCES	466	401	65	289	177	302	164
CLINICAL MEDICINE, N.E.C.	739	439	300	312	427	268	471
HEALTH RELATED, N.E.C.	7,142	4,499	2,643	2,550	4,592	1,445	5,697
PSYCHOLOGY	41,134	24,170	16,964	16,702	24,432	25,986	15,148
SOCIAL SCIENCES	89,284	57,688	31,696	49,403	39,981	53,139	36,245
AGRICULTURAL ECONOMICS	2,295	2,204	91	1,807	488	1,827	468
ANTHROPOLOGY	5,693	4,110	1,583	2,463	3,230	4,802	891
ECONOMICS (EXCEPT AGRICULTURAL)	13,587	8,272	5,315	10,159	3,428	10,837	2,750
GEOGRAPHY	3,060	2,840	220	2,051	1,009	1,813	1,247
HISTORY AND PHILOSOPHY OF SCIENCE	253	141	112	161	92	248	5
LINGUISTICS	3,022	2,095	927	1,217	1,805	2,316	706
POLITICAL SCIENCE	28,275	16,151	12,124	17,409	10,866	13,810	14,465
SOCIOLOGY	6,951	5,029	1,922	3,268	3,683	5,608	1,343
SOCIOLOGY/ANTHROPOLOGY	1,182	610	572	583	599	699	483
SOCIAL SCIENCES, N.E.C.	25,066	16,236	8,830	10,285	14,781	11,179	13,887

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-3. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, TYPE OF CONTROL, AND ENROLLMENT STATUS: 1983

FIELD	PUBLIC INSTITUTIONS			PRIVATE INSTITUTIONS		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL FIELDS	279,406	189,096	90,310	134,158	74,704	59 454
ENGINEERING	58,100	38,190	19,910	34,617	17,040	17,577
AEROSPACE	1,716	1,346	370	692	494	198
AGRICULTURAL	916	713	203	53	53	0
BIOMEDICAL	702	580	122	542	451	91
CHEMICAL	5,057	3,965	1,092	2,506	1,904	602
CIVIL	10,715	7,581	3,134	4,691	2,661	2,030
ELECTRICAL	13,684	8,597	5,089	11,094	4,595	6,499
ENGINEERING SCIENCE	1,387	787	600	894	577	317
INDUSTRIAL	5,036	2,792	2,244	5,665	1,398	4,267
MECHANICAL	8,500	5,872	2,628	4,441	2,479	1,962
METALLURGICAL/MATERIALS	2,024	1,674	350	1,421	1,030	391
MINING	486	367	89	68	61	7
NUCLEAR	963	822	141	240	230	10
PETROLEUM	464	435	29	273	185	88
ENGINEERING, N.E.C.	6,478	2,659	3,819	2,097	982	1,115
PHYSICAL SCIENCES	21,203	18,191	3,012	8,445	7,006	1,439
ASTRONOMY	519	388	131	199	197	2
CHEMICAL	12,925	11,149	1,776	4,894	3,892	1,002
PHYSICS	7,433	6,562	871	3,352	2,917	435
PHYSICAL SCIENCES, N.E.C.	226	92	134	0	0	0
ENVIRONMENTAL SCIENCES	13,139	9,994	3,145	2,486	2,057	429
ATMOSPHERIC SCIENCES	843	743	100	53	42	11
GEOSCIENCES	8,556	6,674	1,882	1,765	1,529	236
OCEANOGRAPHY	1,813	1,348	465	304	264	40
ENVIRONMENTAL SCIENCES, N.E.C.	1,927	1,229	698	364	222	142
MATHEMATICAL/COMPUTER SCIENCES	26,748	15,873	10,875	14,609	5,787	8,822
COMPUTER SCIENCE	14,358	7,697	6,661	9,485	2,981	6,504
MATHEMATICS AND APPLIED MATHEMATICS	10,731	6,834	3,897	4,756	2,583	2,173
STATISTICS	1,659	1,342	317	368	223	145
LIFE SCIENCES	78,558	54,559	23,999	25,341	15,646	9,695
AGRICULTURAL SCIENCES	11,941	9,505	2,436	349	331	18
BIOLOGICAL SCIENCES	34,377	27,738	6,639	13,691	9,448	2,323
ANATOMY	691	618	73	362	319	43
BIOCHEMISTRY	2,839	2,692	147	1,432	1,349	83
BIOLOGY	9,405	6,507	2,898	3,887	2,701	1,186
BIOMETRY/EPIDEMIOLOGY	639	466	173	517	411	106
BIOPHYSICS	251	239	12	205	204	1
BOTANY	3,183	2,806	377	267	237	30
CELL BIOLOGY	645	616	29	528	513	15
ECOLOGY	926	785	141	81	59	22
ENTOMOLOGY/PARASITOLOGY	1,426	1,257	169	49	48	1
GENETICS	713	685	28	322	279	43
MICROBIOLOGY	3,153	2,725	428	1,071	943	128
NUTRITION	3,451	2,377	1,074	944	638	306
PATHOLOGY	967	732	235	535	341	194
PHARMACOLOGY	1,408	1,308	100	689	650	39
PHYSIOLOGY	1,391	1,237	154	629	555	74
ZOOLOGY	2,296	1,948	348	167	137	30
BIOSCIENCES, N.E.C.	993	740	253	146	64	82
HEALTH SCIENCES	32,240	17,316	14,924	13,161	5,867	7,294
ANESTHESIOLOGY	26	12	14	17	15	2
CANCER/ONCOLOGY	56	55	1	18	18	0
CARDIOLOGY	0	0	0	34	24	10
DENTISTRY	541	500	41	275	228	47
ENDOCRINOLOGY	60	60	0	4	4	0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	7	6	1	3	3	0
NEUROLOGY	149	146	3	112	112	0
NURSING	12,121	4,619	7,502	4,824	1,585	3,239
OBSTETRICS/GYNECOLOGY	14	12	2	3	3	0
OPHTHALMOLOGY	8	5	3	2	2	0
OTORHINOLARYNGOLOGY	5	4	1	1	1	0
PEDIATRICS	86	83	3	65	55	10
PHARMACEUTICAL SCIENCES	1,763	1,499	264	851	244	607
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,096	2,709	1,387	2,585	1,247	1,338
PSYCHIATRY	127	63	64	22	17	5
PULMONARY DISEASE	2	2	0	0	0	0
RADIOLOGY	190	129	61	41	40	1
SPEECH PATHOLOGY/AUDIOLOGY	7,582	4,563	3,019	1,269	841	428
SURGERY	68	47	21	27	26	1
VETERINARY SCIENCES	401	298	103	65	65	0
CLINICAL MEDICINE, N.E.C.	439	230	209	300	137	163
HEALTH RELATED, N.E.C.	4,499	2,274	2,225	2,643	1,200	1,443
PSYCHOLOGY	24,170	16,388	7,782	16,964	10,376	6,588
SOCIAL SCIENCES	57,688	35,901	21,787	31,696	16,792	14,904
AGRICULTURAL ECONOMICS	2,204	1,958	246	91	89	2
ANTHROPOLOGY	4,110	2,795	1,315	1,583	1,203	380
ECONOMICS (EXCEPT AGRICULTURAL)	8,272	6,053	2,219	5,315	3,228	2,087
GEOGRAPHY	2,840	2,009	831	220	193	27
HISTORY AND PHILOSOPHY OF SCIENCE	141	121	20	112	108	4
LINGUISTICS	2,095	1,637	458	927	738	189
POLITICAL SCIENCE	16,151	7,745	8,406	12,124	5,736	6,388
SOCIOLOGY	5,029	3,477	1,552	1,922	1,338	584
SOCIOLOGY/ANTHROPOLOGY	610	412	198	572	259	313
SOCIAL SCIENCES, N.E.C.	16,236	9,694	6,542	8,830	3,900	4,930

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-4. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1983

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	413,564	14,487	1,246	10,674	11,242	276,916	24,613	78,386
ENGINEERING	92,717	1,419	185	3,413	1,498	49,751	8,740	27,711
AEROSPACE	2,408	15	1	64	28	1,214	277	809
AGRICULTURAL	949	8	0	11	8	501	51	390
BIOMEDICAL	1,244	22	1	39	50	787	123	222
CHEMICAL	7,563	88	11	311	89	4,256	293	2,515
CIVIL	15,406	188	24	460	298	7,845	1,223	5,368
ELECTRICAL	24,780	367	48	1,113	392	11,991	3,416	7,454
ENGINEERING SCIENCE	1,481	14	3	42	18	1,173	438	583
INDUSTRIAL	10,641	138	20	269	253	7,112	778	1,881
MECHANICAL	12,941	135	19	425	125	6,789	818	4,630
METALLURGICAL/MATERIALS	3,445	37	27	150	54	1,856	72	1,249
MINING	524	2	1	2	3	325	13	178
NUCLEAR	1,203	11	1	41	8	619	39	484
PETROLEUM	737	6	0	13	6	378	3	331
ENGINEERING, N.E.C.	8,575	189	29	473	166	4,905	1,196	1,617
PHYSICAL SCIENCES	29,444	574	45	748	599	18,616	1,218	7,648
ASTRONOMY	618	7	1	7	7	461	27	108
CHEMISTRY	17,819	439	32	558	403	11,757	809	3,821
PHYSICS	10,785	106	12	176	186	6,231	372	3,702
PHYSICAL SCIENCES, N.E.C.	226	22	0	7	3	167	10	17
ENVIRONMENTAL SCIENCES	15,625	211	27	243	225	12,239	826	1,854
ATMOSPHERIC SCIENCES	896	9	1	10	10	597	78	191
GEOSCIENCES	10,221	61	18	119	84	8,442	586	1,011
OCEANOGRAPHY	2,117	21	3	87	116	1,476	28	386
ENVIRONMENTAL SCIENCES, N.E.C.	2,291	20	5	27	15	1,824	134	266
MATHEMATICAL/COMPUTER SCIENCES	41,357	971	55	1,713	615	24,047	3,304	10,652
COMPUTER SCIENCE	23,843	566	22	1,147	283	13,667	2,486	5,672
MATHEMATICS AND APPLIED MATHEMATICS	15,467	380	31	514	317	9,289	794	4,162
STATISTICS	2,027	25	2	52	15	1,091	24	818
LIFE SCIENCES	103,899	3,270	345	2,379	2,621	80,106	3,314	11,864
AGRICULTURAL SCIENCES	12,290	133	32	133	223	8,547	410	2,692
BIOLOGICAL SCIENCES	46,208	1,175	121	1,280	935	35,085	1,516	6,096
ANATOMY	1,053	13	3	26	20	902	7	83
BIOCHEMISTRY	4,271	56	9	159	88	3,089	53	817
BIOLOGY	13,292	540	49	306	406	10,306	533	1,152
BIOMETRY/EPIDEMIOLOGY	1,156	44		47	14	846	21	177
BIOPHYSICS	456	3	0	18	1	345	8	81
BOTANY	3,450	47	3	68	34	2,560	77	661
CELL BIOLOGY	1,173	10	2	38	9	988	4	122
ECOLOGY	1,007	4	1	9	7	889	3	94
ENTOMOLOGY/PARASITOLOGY	1,475	17	2	26	11	1,135	28	256
GENETICS	1,035	22	3	48	11	783	6	152
MICROBIOLOGY	4,224	64	10	124	63	3,145	256	562
NUTRITION	4,395	134	9	159	79	2,880	200	934
PATHOLOGY	1,502	26	2	42	28	1,070	94	240
PHARMACOLOGY	2,097	34	4	77	59	1,663	8	252
PHYSIOLOGY	2,020	38	9	58	45	1,636	10	224
ZOOLOGY	2,463	61	5	43	34	2,023	131	166
BIOSCIENCES, N.E.C.	1,139	62	4	32	26	825	67	123
HEALTH SCIENCES	45,401	1,962	192	966	1,463	36,354	1,388	3,076
ANESTHESIOLOGY	43	0	0	3	0	29	14	0
CANCER/ONCOLOGY	74	1	0	4	1	67	0	1
CARDIOLOGY	34	1	0	0	0	30	3	0
DENTISTRY	816	14	4	14	31	614	8	131
ENDOCRINOLOGY	64	3	0	3	3	36	10	9
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	10	1	0	0	0	9	0	0
NEUROLOGY	261	1	0	12	4	215	2	27
NURSING	16,945	756	47	249	500	14,843	272	278
OBSTETRICS/GYNECOLOGY	17	0	0	1	0	14	0	2
OPHTHALMOLOGY	10	0	0	1	0	8	0	1
OTORHINOLARYNGOLOGY	6	0	0	0	0	6	0	0
PEDIATRICS	151	3	1	3	1	116	0	27
PHARMACEUTICAL SCIENCES	2,614	42	8	107	29	1,560	101	767
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	6,681	324	35	263	385	4,499	353	822
PSYCHIATRY	149	8	1	5	8	108	8	11
PULMONARY DISEASE	2	0	0	0	0	2	0	0
RADIOLOGY	231	1	2	6	0	178	0	44
SPEECH PATHOLOGY/AUDIOLOGY	8,851	393	52	111	249	7,383	326	337
SURGERY	95	1	0	1	2	77	0	14
VETERINARY SCIENCES	466	16	1	12	1	299	12	125
CLINICAL MEDICINE, N.E.C.	739	52	1	24	6	539	25	92
HEALTH RELATED, N.E.C.	7,142	345	40	150	243	5,722	254	388
PSYCHOLOGY	41,134	1,917	160	533	1,829	32,730	2,534	1,431
SOCIAL SCIENCES	89,384	6,225	429	1,645	3,855	59,327	4,677	13,226
AGRICULTURAL ECONOMICS	2,295	55	9	18	44	1,328	17	824
ANTHROPOLOGY	5,693	82	38	67	132	4,608	285	481
ECONOMICS (EXCEPT AGRICULTURAL)	13,587	464	24	331	344	7,437	737	4,250
GEOGRAPHY	3,060	71	6	51	38	2,385	68	441
HISTORY AND PHILOSOPHY OF SCIENCE	253	3	0	1	0	208	0	41
LINGUISTICS	3,022	72	12	51	109	1,743	96	939
POLITICAL SCIENCE	28,275	2,701	118	557	1,822	17,738	1,996	3,343
SOCIOLOGY	6,951	439	56	152	230	4,591	153	1,330
SOCIOLOGY/ANTHROPOLOGY	1,182	178	8	17	46	766	19	148
SOCIAL SCIENCES, N.E.C.	25,066	2,160	158	400	1,090	18,523	1,306	1,429

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-9. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD AND CATEGORY OF INSTITUTION IN WHICH ENROLLED: 1983

FIELD	TOTAL	INSTITUTIONAL CATEGORY 1/ (A) DOCTORATE-GRANTING INSTITUTIONS	(B) COMPREHENSIVE INSTITUTIONS	(C) GENERAL BACCALAUREATE INSTITUTIONS	(D) PROFESSIONAL AND SPECIALIZED INSTITUTIONS
TOTAL, ALL FIELDS	413,564	286,632	97,864	3,028	26,040
ENGINEERING	92,717	68,645	19,348	282	8,442
AEROSPACE	2,408	1,930	132	0	346
AGRICULTURAL	969	935	34	0	0
BIOMEDICAL	1,244	1,041	143	0	60
CHEMICAL	7,563	6,106	705	0	752
CIVIL	15,406	11,954	2,056	77	1,319
ELECTRICAL	24,780	17,373	4,949	33	2,425
ENGINEERING SCIENCE	2,281	1,633	294	20	334
INDUSTRIAL	10,641	7,615	1,888	87	1,051
MECHANICAL	12,961	9,837	1,983	4	1,117
METALLURGICAL/MATERIALS	3,445	2,773	239	0	433
MINING	524	369	8	24	122
NUCLEAR	1,102	1,105	0	0	98
PETROLEUM	737	583	78	13	63
ENGINEERING, N.E.C.	8,575	5,391	2,839	24	321
PHYSICAL SCIENCES	29,448	24,384	4,215	73	776
ASTRONOMY	618	606	12	0	0
CHEMISTRY	17,819	14,391	2,908	37	483
PHYSICS	10,785	9,338	1,125	29	293
PHYSICAL SCIENCES, N.E.C.	226	49	170	7	0
ENVIRONMENTAL SCIENCES	15,625	11,775	2,984	168	698
ATMOSPHERIC SCIENCES	896	784	20	0	92
GEOSCIENCES	10,321	8,079	1,767	78	397
OCEANOGRAPHY	2,117	1,517	416	73	111
ENVIRONMENTAL SCIENCES, N.E.C.	2,291	1,395	781	17	98
MATHEMATICAL/COMPUTER SCIENCES	41,357	22,911	13,824	1,068	3,554
COMPUTER SCIENCE	23,843	11,268	8,779	1,034	2,762
MATHEMATICS AND APPLIED MATHEMATICS	15,487	9,763	4,924	34	766
STATISTICS	2,027	1,880	121	0	26
LIFE SCIENCES	103,899	74,710	20,990	834	7,365
AGRICULTURAL SCIENCES	13,290	10,668	1,576	99	27
BIOLOGICAL SCIENCES	46,208	35,048	8,189	145	2,826
ANATOMY	1,093	778	43	0	232
BIOCHEMISTRY	4,271	3,726	166	0	379
BIOLOGY	13,292	7,244	5,889	49	110
BIOMETRY/EPIDEMIOLOGY	1,156	1,042	0	0	114
BIOPHYSICS	456	432	0	0	24
BOTANY	3,450	3,141	305	4	0
CELL BIOLOGY	1,173	1,063	16	0	[illegible]
ECOLOGY	1,007	819	187	0	[illegible]
ENTOMOLOGY/PARASITOLOGY	1,475	1,449	26	0	[illegible]
GENETICS	1,035	979	54	0	[illegible]
MICROBIOLOGY	4,224	3,453	285	0	486
NUTRITION	4,395	3,761	509	0	125
PATHOLOGY	1,502	1,153	88	0	261
PHARMACOLOGY	2,097	1,694	20	0	383
PHYSIOLOGY	3,020	2,762	79	0	[illegible]
ZOOLOGY	2,463	2,233	127	1	0
BIOSCIENCES, N.E.C.	1,139	361	407	91	248
HEALTH SCIENCES	45,401	29,034	11,225	630	4,512
ANESTHESIOLOGY	43	33	1	0	9
CANCER/ONCOLOGY	74	74	0	0	0
CARDIOLOGY	34	3	31	0	0
DENTISTRY	816	610	81	0	125
ENDOCRINOLOGY	64	35	0	0	29
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	10	10	0	0	0
NEUROLOGY	241	191	14	0	36
NURSING	16,945	11,130	1 515	328	1,982
OBSTETRICS/GYNECOLOGY	17	10	0	0	7
OPHTHALMOLOGY	10	2	0	0	8
OTORHINOLARYNGOLOGY	6	5	0	0	1
PEDIATRICS	151	137	0	0	14
PHARMACEUTICAL SCIENCES	2,614	1,889	557	[illegible]	168
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	6,681	5,006	647	0	1,028
PSYCHIATRY	149	38	0	0	111
PULMONARY DISEASE	2	0	0	0	2
RADIOLOGY	231	214	0	0	17
SPEECH PATHOLOGY/AUDIOLOGY	8,851	5,479	2,930	0	442
SURGERY	95	86	0	0	9
VETERINARY SCIENCES	466	434	32	0	0
CLINICAL MEDICINE, N.E.C.	739	207	347	0	185
HEALTH RELATED, N.E.C.	7,142	3,441	3,070	312	319
PSYCHOLOGY	41,134	20,838	15,718	454	4 [illegible]
SOCIAL SCIENCES	89,384	63,369	24,785	149	1,081
AGRICULTURAL ECONOMICS	2,295	2,141	143	11	0
ANTHROPOLOGY	5,693	5,166	500	0	27
ECONOMICS (EXCEPT AGRICULTURAL)	13,587	11,295	2,121	40	131
GEOGRAPHY	3,060	2,391	669	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	253	245	0	0	8
LINGUISTICS	3,022	2,574	448	0	0
POLITICAL SCIENCE	28,275	17,963	9,746	42	524
SOCIOLOGY	6,991	6,002	937	0	12
SOCIOLOGY/ANTHROPOLOGY	1,182	773	397	6	6
SOCIAL SCIENCES, N.E.C.	25,044	14,819	9,824	50	373

1/ BASED ON CLASSIFICATIONS DEVISED BY THE NATIONAL CENTER FOR EDUCATION STATISTICS.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-6. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION, HIGHEST DEGREE GRANTED, AND ENROLLMENT STATUS: 1983

DIVISION AND STATE	ALL INSTITUTIONS			DOCTORATE-GRANTING			MASTER'S-GRANTING		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL INSTITUTIONS	413,564	263,800	149,764	358,276	243,646	114,630	55,288	20,154	35,134
NEW ENGLAND	33,129	21,170	11,959	28,132	20,241	7,891	4,997	929	4,068
CONNECTICUT	7,503	4,234	3,269	4,271	3,763	508	3,232	471	2,761
MAINE	509	412	97	509	412	97	0	0	0
MASSACHUSETTS	21,517	13,864	7,653	20,067	13,543	6,524	1,450	321	1,129
NEW HAMPSHIRE	863	673	190	800	671	129	63	2	61
RHODE ISLAND	2,063	1,521	542	1,851	1,426	425	212	95	117
VERMONT	674	466	208	634	426	208	40	40	0
MIDDLE ATLANTIC	76,676	38,956	37,720	67,420	36,930	30,490	9,256	2,026	7,230
NEW JERSEY	10,717	4,193	6,524	9,619	4,072	5,547	1,098	121	977
NEW YORK	46,078	23,222	22,856	40,203	22,067	18,136	5,875	1,155	4,720
PENNSYLVANIA	19,881	11,541	8,340	17,598	10,791	6,807	2,283	750	1,533
EAST NORTH CENTRAL	70,072	48,730	21,342	62,782	45,341	17,441	7,290	3,389	3,901
ILLINOIS	20,431	13,693	6,738	16,786	12,446	4,340	3,645	1,247	2,398
INDIANA	8,630	6,048	2,582	8,207	5,918	2,289	423	130	293
MICHIGAN	13,766	9,599	4,167	12,998	9,319	3,679	766	280	488
OHIO	18,125	12,663	5,462	16,802	11,550	5,252	1,323	1,113	210
WISCONSIN	9,120	6,777	2,393	7,989	6,108	1,881	1,131	619	512
WEST NORTH CENTRAL	26,764	19,476	7,288	24,720	18,437	6,283	2,044	1,039	1,005
IOWA	5,060	4,021	1,039	4,938	3,982	956	122	39	83
KANSAS	5,173	3,803	1,370	4,494	3,504	990	679	299	380
MINNESOTA	5,986	4,694	1,292	5,267	4,291	976	719	403	316
MISSOURI	6,350	4,011	2,339	5,841	3,723	2,118	509	288	221
NEBRASKA	2,412	1,562	850	2,397	1,552	845	15	10	5
NORTH DAKOTA	994	802	192	994	802	192	0	0	0
SOUTH DAKOTA	789	583	206	789	583	206	0	0	0
SOUTH ATLANTIC	58,039	34,403	23,636	52,738	32,653	20,085	5,301	1,750	3,551
DELAWARE	1,180	776	404	1,180	776	404	0	0	0
DISTRICT OF COLUMBIA	8,389	3,282	5,107	8,245	3,207	5,038	144	75	69
FLORIDA	12,291	6,508	5,783	11,319	6,146	5,173	972	362	610
GEORGIA	6,164	4,668	1,496	5,849	4,540	1,309	315	128	187
MARYLAND	7,730	4,056	3,674	5,855	3,714	2,141	1,875	342	1,533
NORTH CAROLINA	8,240	6,393	1,847	7,363	5,919	1,444	877	474	403
SOUTH CAROLINA	3,174	2,167	1,007	3,017	2,101	916	157	66	91
VIRGINIA	7,683	5,204	2,479	7,273	4,951	2,322	410	253	157
WEST VIRGINIA	3,188	1,349	1,839	2,637	1,299	1,338	551	50	501
EAST SOUTH CENTRAL	15,687	10,332	5,355	13,183	9,089	4,094	2,504	1,243	1,261
ALABAMA	4,007	2,741	1,266	3,366	2,318	1,048	641	423	218
KENTUCKY	3,552	2,311	1,241	2,865	1,932	933	687	379	308
MISSISSIPPI	2,350	1,791	559	2,063	1,650	413	287	141	146
TENNESSEE	5,778	3,489	2,289	4,889	3,189	1,700	889	300	589
WEST SOUTH CENTRAL	38,108	24,499	13,609	32,796	22,583	10,213	5,312	1,916	3,396
ARKANSAS	1,844	1,143	701	1,189	856	333	655	287	368
LOUISIANA	4,833	3,348	1,485	4,371	3,153	1,218	462	195	267
OKLAHOMA	4,157	3,045	1,112	4,066	3,011	1,055	91	34	57
TEXAS	27,274	16,963	10,311	23,170	15,563	7,607	4,104	1,400	2,704
MOUNTAIN	23,542	17,658	5,884	23,065	17,259	5,806	517	419	98
ARIZONA	6,384	4,430	1,954	6,384	4,430	1,954	0	0	0
COLORADO	6,736	5,235	1,501	6,702	5,205	1,497	34	30	4
IDAHO	1,004	653	351	1,004	653	351	0	0	0
MONTANA	1,075	995	80	1,000	930	70	75	65	10
NEVADA	722	557	165	532	390	142	190	167	23
NEW MEXICO	2,769	1,941	828	2,551	1,784	767	218	157	61
UTAH	4,037	3,053	984	4,037	3,053	984	0	0	0
WYOMING	835	794	41	835	794	41	0	0	0
PACIFIC	69,109	44,948	22,161	51,077	39,517	11,560	18,032	7,431	10,601
ALASKA	637	382	255	424	325	99	213	57	156
CALIFORNIA	56,383	37,236	19,147	40,058	30,724	9,334	16,325	6,512	9,813
HAWAII	1,965	1,670	295	1,965	1,670	295	0	0	0
OREGON	3,570	2,867	703	3,305	2,704	601	265	163	102
WASHINGTON	6,554	4,793	1,761	5,325	4,094	1,231	1,229	699	530
OUTLYING AREAS	2,418	1,628	790	2,383	1,616	767	35	12	23

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-7. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION, TYPE OF CONTROL, AND CITIZENSHIP: 1983

DIVISION AND STATE	ALL INSTITUTIONS			PUBLIC			PRIVATE		
	TOTAL	U.S.	FOREIGN	TOTAL	U.S.	FOREIGN	TOTAL	U.S.	FOREIGN
TOTAL, ALL INSTITUTIONS	413,564	339,178	74,386	279,406	228,229	51,177	134,158	110,949	23,209
NEW ENGLAND	33,129	27,324	5,805	10,014	8,348	1,666	23,115	18,976	4,139
CONNECTICUT	7,503	6,583	920	2,859	2,493	366	4,644	4,090	554
MAINE	509	421	88	509	421	88	0	0	0
MASSACHUSETTS	21,517	17,323	4,194	4,190	3,346	844	17,327	13,977	3,350
NEW HAMPSHIRE	863	773	90	508	451	57	355	322	33
RHODE ISLAND	2,063	1,604	459	1,314	1,041	273	749	563	186
VERMONT	674	620	54	634	596	38	40	24	16
MIDDLE ATLANTIC	76,676	63,633	13,043	31,751	26,223	5,528	44,925	37,410	7,515
NEW JERSEY	10,717	8,977	1,740	6,499	5,544	955	4,218	3,433	785
NEW YORK	46,078	38,322	7,756	14,198	11,535	2,663	31,880	26,787	5,093
PENNSYLVANIA	19,881	16,334	3,547	11,054	9,144	1,910	8,827	7,190	1,637
EAST NORTH CENTRAL	70,072	56,210	13,862	55,367	44,142	11,225	14,705	12,068	2,637
ILLINOIS	20,431	16,361	4,070	12,177	9,718	2,459	8,254	6,643	1,611
INDIANA	8,630	6,941	1,689	7,544	6,081	1,463	1,086	860	226
MICHIGAN	13,766	10,856	2,910	13,139	10,312	2,827	627	544	83
OHIO	18,125	14,709	3,416	14,272	11,447	2,825	3,853	3,262	591
WISCONSIN	9,120	7,343	1,777	8,235	6,584	1,651	885	759	126
WEST NORTH CENTRAL	26,764	21,160	5,604	24,363	19,102	5,261	2,401	2,058	343
IOWA	5,060	3,529	1,531	4,938	3,410	1,528	122	119	3
KANSAS	5,173	4,213	960	5,173	4,213	960	0	0	0
MINNESOTA	5,986	4,820	1,166	5,652	4,488	1,164	334	332	2
MISSOURI	6,350	5,155	1,195	4,451	3,594	857	1,899	1,561	338
NEBRASKA	2,412	2,036	376	2,366	1,990	376	46	46	0
NORTH DAKOTA	994	821	173	994	821	173	0	0	0
SOUTH DAKOTA	789	586	203	789	586	203	0	0	0
SOUTH ATLANTIC	58,039	49,316	8,723	39,817	33,929	5,888	18,222	15,387	2,835
DELAWARE	1,180	962	218	1,180	962	218	0	0	0
DISTRICT OF COLUMBIA	8,389	6,871	1,518	130	94	36	8,259	6,777	1,482
FLORIDA	12,291	10,455	1,836	7,310	6,156	1,154	4,981	4,299	682
GEORGIA	6,164	5,067	1,097	5,120	4,254	866	1,044	813	231
MARYLAND	7,730	6,616	1,114	5,178	4,395	783	2,552	2,221	331
NORTH CAROLINA	8,240	7,141	1,099	7,103	6,104	999	1,137	1,037	100
SOUTH CAROLINA	3,174	2,705	469	3,169	2,700	469	5	5	0
VIRGINIA	7,683	6,655	1,028	7,439	6,420	1,019	244	235	9
WEST VIRGINIA	3,188	2,844	344	3,188	2,844	344	0	0	0
EAST SOUTH CENTRAL	15,687	13,260	2,427	14,680	12,556	2,124	1,007	704	303
ALABAMA	4,007	3,334	673	3,878	3,274	604	129	60	69
KENTUCKY	3,552	3,067	485	3,432	2,948	484	120	119	1
MISSISSIPPI	2,350	1,858	492	2,350	1,858	492	0	0	0
TENNESSEE	5,778	5,001	777	5,020	4,476	544	758	525	233
WEST SOUTH CENTRAL	38,108	30,144	7,964	33,969	26,805	7,164	4,139	3,339	800
ARKANSAS	1,844	1,623	221	1,844	1,623	221	0	0	0
LOUISIANA	4,833	3,672	1,161	3,863	2,912	951	970	760	210
OKLAHOMA	4,157	3,022	1,135	3,864	2,826	1,038	293	196	97
TEXAS	27,274	21,827	5,447	24,398	19,444	4,954	2,876	2,383	493
MOUNTAIN	23,562	19,393	4,169	21,601	17,727	3,874	1,961	1,666	295
ARIZONA	6,384	5,164	1,220	6,384	5,164	1,220	0	0	0
COLORADO	6,736	5,537	1,199	5,695	4,654	1,041	1,041	883	158
IDAHO	1,004	883	121	1,004	883	121	0	0	0
MONTANA	1,075	923	152	1,075	923	152	0	0	0
NEVADA	722	620	102	722	620	102	0	0	0
NEW MEXICO	2,769	2,240	529	2,769	2,240	529	0	0	0
UTAH	4,037	3,327	710	3,117	2,544	573	920	783	137
WYOMING	835	699	136	835	699	136	0	0	0
PACIFIC	69,109	56,367	12,742	45,800	37,379	8,421	23,309	18,988	4,321
ALASKA	637	562	75	637	562	75	0	0	0
CALIFORNIA	56,383	46,205	10,178	33,853	27,909	5,944	22,530	18,296	4,234
HAWAII	1,965	1,469	496	1,965	1,469	496	0	0	0
OREGON	3,570	2,653	917	3,374	2,490	884	196	163	33
WASHINGTON	6,554	5,478	1,076	5,971	4,949	1,022	583	529	54
OUTLYING AREAS	2,418	2,371	47	2,044	2,018	26	374	353	21

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-8. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1983

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	263,800	86,950	176,850	201,003	62,797	172,251	91,549	189,096	74,704
ENGINEERING	55,230	19,677	35,553	32,181	23,049	49,196	6,034	38,190	17,040
AEROSPACE	1,840	614	1,226	1,088	752	1,760	80	1,346	494
AGRICULTURAL	766	266	500	425	341	708	58	713	53
BIOMEDICAL	1,031	366	665	836	195	804	227	580	451
CHEMICAL	5,869	1,824	4,045	3,630	2,239	5,100	769	3,965	1,904
CIVIL	10,242	3,994	6,248	5,854	4,388	8,795	1,447	7,581	2,661
ELECTRICAL	13,192	4,661	8,531	7,354	5,838	12,244	948	8,597	4,595
ENGINEERING SCIENCE	1,364	403	961	867	497	1,228	136	787	577
INDUSTRIAL	4,130	1,560	2,570	2,634	1,496	3,243	887	2,792	1,338
MECHANICAL	8,351	3,140	5,211	4,324	4,027	7,867	484	5,872	2,479
METALLURGICAL/MATERIALS	2,704	752	1,952	1,528	1,176	2,380	324	1,674	1,030
MINING	428	157	271	273	155	387	41	367	61
NUCLEAR	1,052	335	717	591	461	978	74	822	230
PETROLEUM	620	207	413	330	290	557	63	435	185
ENGINEERING, N.E.C.	3,641	1,398	2,243	2,447	1,194	3,145	496	2,659	982
PHYSICAL SCIENCES	25,197	6,707	18,490	17,978	7,219	20,365	4,832	18,191	7,006
ASTRONOMY	585	123	462	480	105	500	85	388	197
CHEMISTRY	15,041	4,001	11,040	11,511	3,530	11,357	3,684	11,149	3,892
PHYSICS	9,479	2,560	6,919	5,907	3,572	8,445	1,034	6,562	2,917
PHYSICAL SCIENCES, N.E.C.	92	23	69	80	12	63	29	92	0
ENVIRONMENTAL SCIENCES	12,051	3,776	8,275	10,374	1,677	9,032	3,019	9,994	2,057
ATMOSPHERIC SCIENCES	785	210	575	603	182	667	118	743	42
GEOSCIENCES	8,203	2,707	5,496	7,280	923	6,249	1,954	6,674	1,529
OCEANOGRAPHY	1,612	421	1,191	1,251	361	1,162	450	1,348	264
ENVIRONMENTAL SCIENCES, N.E.C.	1,451	438	1,013	1,240	211	954	497	1,229	222
MATHEMATICAL/COMPUTER SCIENCES	21,660	7,489	14,171	13,427	8,233	16,093	5,567	15,873	5,787
COMPUTER SCIENCE	10,678	3,881	6,797	6,697	3,981	8,035	2,643	7,697	2,981
MATHEMATICS AND APPLIED MATHEMATICS	9,417	3,159	6,258	5,902	3,515	6,954	2,463	6,834	2,583
STATISTICS	1,565	449	1,116	828	737	1,104	461	1,342	223
LIFE SCIENCES	70,205	22,668	47,537	59,775	10,430	36,521	33,684	54,559	15,646
AGRICULTURAL SCIENCES	9,836	2,793	7,043	7,368	2,468	7,348	2,488	9,505	331
BIOLOGICAL SCIENCES	37,186	9,924	27,262	31,645	5,541	22,238	14,948	27,738	9,448
ANATOMY	937	219	718	861	76	569	368	618	319
BIOCHEMISTRY	4,041	1,016	3,025	3,259	782	2,555	1,486	2,692	1,349
BIOLOGY	9,208	2,644	6,564	8,221	987	5,340	3,668	6,507	2,701
BIOMETRY/EPIDEMIOLOGY	877	253	624	720	157	424	453	466	411
BIOPHYSICS	443	99	344	363	80	330	113	239	204
BOTANY	3,043	754	2,289	2,431	612	1,951	1,092	2,806	237
CELL BIOLOGY	1,129	252	877	1,009	120	747	382	616	513
ECOLOGY	844	192	652	766	78	557	287	785	59
ENTOMOLOGY/PARASITOLOGY	1,303	260	1,045	1,065	240	969	336	1,257	48
GENETICS	964	255	709	819	145	487	477	685	279
MICROBIOLOGY	3,668	944	2,724	3,157	511	2,097	1,571	2,725	943
NUTRITION	3,015	987	2,028	2,194	821	1,061	1,954	2,377	638
PATHOLOGY	1,073	283	790	865	208	673	400	732	341
PHARMACOLOGY	1,958	477	1,481	1,712	246	1,257	701	1,308	650
PHYSIOLOGY	1,792	570	1,222	1,577	215	1,169	623	1,237	555
ZOOLOGY	2,085	534	1,551	1,935	150	1,388	697	1,948	137
BIOSCIENCES, N.E.C.	804	185	619	691	113	464	340	740	64
HEALTH SCIENCES	23,183	9,951	13,232	20,762	2,421	6,935	16,248	17,316	5,867
ANESTHESIOLOGY	27	20	7	27	0	12	15	12	15
CANCER/ONCOLOGY	73	18	55	72	1	46	27	55	18
CARDIOLOGY	24	20	4	24	0	11	13	0	24
DENTISTRY	728	276	452	606	122	574	154	500	228
ENDOCRINOLOGY	64	12	52	55	9	33	31	60	4
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	9	3	6	9	0	2	7	6	3
NEUROLOGY	258	71	187	231	27	186	72	146	112
NURSING	6,204	2,770	3,434	6,045	159	358	5,846	4,619	1,585
OBSTETRICS/GYNECOLOGY	15	2	13	13	2	10	5	12	3
OPHTHALMOLOGY	7	2	5	6	1	3	4	5	2
OTORHINOLARYNGOLOGY	5	4	1	5	0	4	1	4	1
PEDIATRICS	138	67	71	114	24	30	108	83	55
PHARMACEUTICAL SCIENCES	1,743	467	1,276	1,125	618	1,196	547	1,499	244
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,956	1,973	1,983	3,241	715	1,792	2,164	2,709	1,247
PSYCHIATRY	80	23	57	73	7	39	41	63	17
PULMONARY DISEASE	2	1	1	2	0	1	1	2	0
RADIOLOGY	169	57	112	129	40	133	36	129	40
SPEECH PATHOLOGY/AUDIOLOGY	5,404	2,383	3,021	5,143	261	788	4,616	4,563	841
SURGERY	73	23	50	59	14	58	15	47	26
VETERINARY SCIENCES	363	119	244	252	111	226	137	298	65
CLINICAL MEDICINE, N.E.C.	367	110	257	296	71	201	166	230	137
HEALTH RELATED, N.E.C.	3,474	1,530	1,944	3,235	239	1,232	2,242	2,274	1,200
PSYCHOLOGY	26,764	7,863	18,901	25,673	1,091	11,413	15,351	16,388	10,376
SOCIAL SCIENCES	52,693	18,770	33,923	41,595	11,098	29,631	23,062	35,901	16,792
AGRICULTURAL ECONOMICS	2,047	665	1,382	1,282	765	1,621	426	1,958	89
ANTHROPOLOGY	3,998	860	3,138	3,593	405	1,754	2,244	2,795	1,203
ECONOMICS (EXCEPT AGRICULTURAL)	9,281	2,906	6,375	5,716	3,565	7,100	2,181	6,053	3,228
GEOGRAPHY	2,202	743	1,459	1,816	386	1,491	711	2,009	193
HISTORY AND PHILOSOPHY OF SCIENCE	229	52	177	189	40	145	84	121	108
LINGUISTICS	2,375	798	1,577	1,525	850	1,025	1,350	1,637	738
POLITICAL SCIENCE	13,481	5,199	8,282	10,739	2,742	8,823	4,658	7,745	5,736
SOCIOLOGY	4,815	1,235	3,580	3,715	1,100	2,337	2,478	3,477	1,338
SOCIOLOGY/ANTHROPOLOGY	671	214	457	542	129	317	354	412	259
SOCIAL SCIENCES, N.E.C.	13,594	6,098	7,496	12,478	1,116	5,018	8,576	9,694	3,900

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-9. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1983

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	243,646	78,341	165,305	183,740	59,906	162,185	81,461	175,349	68,297
ENGINEERING	53,553	18,932	34,621	31,144	22,409	47,748	5,805	37,124	16,429
AEROSPACE	1,825	603	1,222	1,078	747	1,745	80	1,346	479
AGRICULTURAL	766	266	500	425	341	708	58	713	53
BIOMEDICAL	1,012	359	653	817	195	790	222	563	449
CHEMICAL	9,790	1,781	4,009	3,589	2,201	5,022	758	3,925	1,865
CIVIL	9,957	3,858	6,099	5,682	4,275	8,599	1,398	7,402	2,551
ELECTRICAL	12,843	4,522	8,321	7,182	5,661	11,933	910	8,428	4,415
ENGINEERING SCIENCE	1,239	391	948	846	493	1,207	132	775	464
INDUSTRIAL	3,917	1,472	2,445	2,486	1,431	3,076	841	2,634	1,283
MECHANICAL	8,199	3,080	5,119	4,244	3,955	7,728	471	5,798	2,401
METALLURGICAL/MATERIALS	2,686	748	1,938	1,518	1,168	2,366	320	1,656	1,030
MINING	404	145	259	251	153	368	36	343	61
NUCLEAR	1,052	335	717	591	461	978	74	822	230
PETROLEUM	607	200	407	321	286	544	63	422	185
ENGINEERING, N.E.C.	3,156	1,172	1,984	2,114	1,042	2,714	442	2,293	863
PHYSICAL SCIENCES	24,476	6,407	18,069	17,448	7,028	19,847	4,629	17,578	6,898
ASTRONOMY	585	123	462	480	105	500	85	388	197
CHEMISTRY	14,493	3,771	10,722	11,088	3,405	10,985	3,508	10,695	3,798
PHYSICS	9,347	2,497	6,850	5,834	3,513	8,333	1,014	6,444	2,903
PHYSICAL SCIENCES, N.E.C.	51	16	35	46	5	29	22	51	0
ENVIRONMENTAL SCIENCES	11,428	3,517	7,911	9,788	1,640	8,610	2,818	9,435	1,993
ATMOSPHERIC SCIENCES	778	205	573	598	180	662	116	736	42
GEOSCIENCES	7,908	2,568	5,340	7,000	908	6,020	1,888	6,379	[illegible]
OCEANOGRAPHY	1,547	390	1,157	1,187	360	1,120	427	[illegible]	264
ENVIRONMENTAL SCIENCES, N.E.C.	1,195	354	841	1,003	192	808	387	1,037	158
MATHEMATICAL/COMPUTER SCIENCES	19,581	6,703	12,878	11,964	7,617	14,710	4,871	14,374	5,207
COMPUTER SCIENCE	9,258	3,392	5,866	5,728	3,530	7,056	2,202	6,837	2,421
MATHEMATICS AND APPLIED MATHEMATICS	8,766	2,868	5,898	5,415	3,351	6,554	2,212	6,203	2,563
STATISTICS	1,557	443	1,114	821	736	1,100	457	1,334	223
LIFE SCIENCES	65,185	20,599	44,586	55,217	9,968	34,552	30,633	50,800	14,385
AGRICULTURAL SCIENCES	9,397	2,675	6,722	7,023	2,374	7,028	2,369	9,127	270
BIOLOGICAL SCIENCES	35,262	9,160	26,103	29,913	5,350	21,195	14,068	26,094	9,169
ANATOMY	937	219	718	861	76	569	368	618	319
BIOCHEMISTRY	4,015	1,003	3,012	3,241	774	2,539	1,476	2,692	1,323
BIOLOGY	7,686	2,067	5,619	6,824	862	4,655	3,031	5,122	2,564
BIOMETRY/EPIDEMIOLOGY	877	253	624	720	157	424	453	466	411
BIOPHYSICS	443	99	344	363	80	330	113	239	204
BOTANY	3,013	740	2,273	2,411	602	1,931	1,082	2,778	235
CELL BIOLOGY	1,129	252	877	1,009	120	747	382	616	513
ECOLOGY	835	185	650	758	77	551	284	778	57
ENTOMOLOGY/PARASITOLOGY	1,305	260	1,045	1,065	240	969	336	1,257	48
GENETICS	919	231	688	777	142	484	435	685	234
MICROBIOLOGY	3,644	931	2,713	3,141	503	2,086	1,558	2,715	929
NUTRITION	2,895	942	1,953	2,093	802	1,040	1,855	2,299	636
PATHOLOGY	1,068	278	790	860	208	671	397	730	338
PHARMACOLOGY	1,996	475	1,481	1,711	285	1,256	700	1,308	648
PHYSIOLOGY	1,792	570	1,222	1,577	215	1,164	628	1,237	555
ZOOLOGY	2,058	517	1,541	1,910	148	1,475	683	1,929	129
BIOSCIENCES, N.E.C.	691	138	553	592	99	399	292	665	26
HEALTH SCIENCES	20,525	8,764	11,761	18,281	2,244	6,329	14,196	15,579	4,946
ANESTHESIOLOGY	27	20	7	27	0	12	15	12	15
CANCER/ONCOLOGY	73	18	55	72	1	46	27	55	18
CARDIOLOGY	3	0	3	3	0	2	1	0	3
DENTISTRY	728	276	452	606	122	574	154	500	228
ENDOCRINOLOGY	64	12	52	55	9	33	31	60	4
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	9	3	6	9	0	2	7	6	3
NEUROLOGY	244	57	187	217	27	172	72	146	98
NURSING	5,717	2,599	3,118	5,568	149	296	5,421	4,397	1,320
OBSTETRICS/GYNECOLOGY	15	2	13	13	2	10	5	12	3
OPHTHALMOLOGY	7	2	5	6	1	3	4	5	2
OTORHINOLARYNGOLOGY	5	4	1	5	0	4	1	4	1
PEDIATRICS	138	67	71	114	24	30	108	83	55
PHARMACEUTICAL SCIENCES	1,728	462	1,266	1,116	612	1,186	542	1,486	242
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,921	1,954	1,967	3,211	710	1,776	2,145	2,677	1,244
PSYCHIATRY	80	23	57	73	7	39	41	63	17
PULMONARY DISEASE	2	1	1	2	0	1	1	2	0
RADIOLOGY	169	57	112	129	40	133	36	129	40
SPEECH PATHOLOGY/AUDIOLOGY	4,439	1,890	2,549	4,201	238	721	3,718	3,738	701
SURGERY	73	23	50	59	14	58	15	47	26
VETERINARY SCIENCES	337	109	228	299	98	214	123	298	39
CLINICAL MEDICINE, N.E.C.	293	78	215	240	53	171	122	180	113
HEALTH RELATED, N.E.C.	2,453	1,107	1,346	2,316	137	846	1,607	1,679	774
PSYCHOLOGY	21,327	5,392	15,935	20,422	905	9,591	11,736	13,172	8,155
SOCIAL SCIENCES	48,096	16,791	31,305	37,757	10,339	27,127	20,969	32,846	15,230
AGRICULTURAL ECONOMICS	1,994	637	1,357	1,269	725	1,577	417	1,905	89
ANTHROPOLOGY	3,924	836	3,088	3,525	399	1,718	2,206	2,722	1,202
ECONOMICS (EXCEPT AGRICULTURAL)	8,925	2,746	6,179	5,537	3,388	6,829	2,096	5,826	3,099
GEOGRAPHY	2,015	674	1,341	1,648	367	1,356	659	1,822	193
HISTORY AND PHILOSOPHY OF SCIENCE	229	52	177	189	40	145	84	121	108
LINGUISTICS	2,316	786	1,530	1,479	837	998	1,318	1,578	738
POLITICAL SCIENCE	11,769	4,516	7,253	9,343	2,426	7,721	4,048	6,698	5,071
SOCIOLOGY	4,582	1,129	3,453	3,511	1,071	2,244	2,338	3,254	1,328
SOCIOLOGY/ANTHROPOLOGY	596	159	437	469	127	279	317	383	213
SOCIAL SCIENCES, N.E.C.	11,746	5,256	6,490	10,787	959	4,260	7,486	8,557	3,189

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-10. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1983

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	20,154	8,609	11,545	17,263	2,891	10,066	10,088	13,747	6,407
ENGINEERING	1,677	745	932	1,037	640	1,448	229	1,066	611
AEROSPACE	15	11	4	10	5	15	0	0	15
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	19	7	12	19	0	14	5	17	2
CHEMICAL	79	43	36	41	38	68	11	40	39
CIVIL	285	136	149	172	113	236	49	175	110
ELECTRICAL	349	139	210	173	177	311	38	169	180
ENGINEERING SCIENCE	25	12	13	21	4	21	4	12	13
INDUSTRIAL	213	88	125	148	65	167	46	158	55
MECHANICAL	152	60	92	80	72	139	13	74	78
METALLURGICAL/MATERIALS	18	4	14	10	8	14	4	18	0
MINING	24	12	12	22	2	19	5	24	0
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	13	7	6	9	4	13	0	13	0
ENGINEERING, N.E.C.	485	226	259	333	152	431	54	366	119
PHYSICAL SCIENCES	721	300	421	530	191	518	203	613	108
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	548	230	318	423	125	372	176	454	94
PHYSICS	132	63	69	73	59	112	20	118	14
PHYSICAL SCIENCES, N.E.C.	41	7	34	34	7	34	7	41	0
ENVIRONMENTAL SCIENCES	623	259	364	586	37	422	201	559	64
ATMOSPHERIC SCIENCES	7	5	2	5	2	5	2	7	0
GEOSCIENCES	295	139	156	280	15	229	66	295	0
OCEANOGRAPHY	65	31	34	64	1	42	23	65	0
ENVIRONMENTAL SCIENCES, N.E.C.	256	84	172	237	19	146	110	192	64
MATHEMATICAL/COMPUTER SCIENCES	2,079	786	1,293	1,463	616	1,383	696	1,499	580
COMPUTER SCIENCE	1,420	489	931	969	451	979	441	860	560
MATHEMATICS AND APPLIED MATHEMATICS	651	291	360	487	164	400	251	631	20
STATISTICS	8	6	2	7	1	4	4	8	0
LIFE SCIENCES	5,020	2,069	2,951	4,558	462	1,969	3,051	3,759	1,261
AGRICULTURAL SCIENCES	439	118	321	345	94	320	119	378	61
BIOLOGICAL SCIENCES	1,923	764	1,159	1,732	191	1,043	880	1,644	279
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	26	13	13	18	8	16	10	0	26
BIOLOGY	1,522	577	945	1,397	125	885	637	1,385	137
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	30	14	16	20	10	20	10	28	2
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	9	7	2	8	1	6	3	7	2
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	45	24	21	42	3	3	42	0	45
MICROBIOLOGY	24	13	11	16	8	11	13	10	14
NUTRITION	120	45	75	101	19	21	99	118	2
PATHOLOGY	5	5	0	5	0	2	3	2	3
PHARMACOLOGY	2	2	0	1	1	1	1	0	2
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	27	17	10	25	2	13	14	19	8
BIOSCIENCES, N.E.C.	113	47	66	99	14	65	48	75	38
HEALTH SCIENCES	2,658	1,187	1,471	2,481	177	606	2,052	1,737	921
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	21	20	1	21	0	9	12	0	21
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	14	14	0	14	0	14	0	0	14
NURSING	487	171	316	477	10	62	425	222	265
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	15	5	10	9	6	10	5	13	2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	35	19	16	30	5	16	19	32	3
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	965	493	472	942	23	67	898	825	140
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	26	10	16	13	13	12	14	0	26
CLINICAL MEDICINE, N.E.C.	74	32	42	56	18	30	44	50	24
HEALTH RELATED, N.E.C.	1,021	423	598	919	102	386	635	595	426
PSYCHOLOGY	5,437	2,471	2,966	5,251	186	1,822	3,615	3,216	2,221
SOCIAL SCIENCES	4,597	1,979	2,618	3,838	759	2,504	2,093	3,035	1,562
AGRICULTURAL ECONOMICS	53	28	25	13	40	44	9	53	0
ANTHROPOLOGY	74	24	50	68	6	36	38	73	1
ECONOMICS (EXCEPT AGRICULTURAL)	356	160	196	179	177	271	85	227	129
GEOGRAPHY	187	69	118	168	19	135	52	187	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	59	12	47	46	13	27	32	59	0
POLITICAL SCIENCE	1,712	683	1,029	1,396	316	1,102	610	1,047	665
SOCIOLOGY	233	106	127	204	29	93	140	223	10
SOCIOLOGY/ANTHROPOLOGY	75	55	20	73	2	38	37	29	46
SOCIAL SCIENCES, N.E.C.	1,848	842	1,006	1,691	157	758	1,090	1,137	711

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-11. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1983

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/ COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	263,800	55,230	25,197	12,051	21,660	70,205	26,764	52,693
FEDERAL, TOTAL	48,611	12,008	8,125	2,882	1,892	17,698	2,143	3,863
DEPT OF DEFENSE	7,044	4,009	831	365	787	518	174	360
DEPT OF HHS, TOTAL	15,286	575	1,535	52	70	11,409	1,024	621
NIH	10,973	477	1,437	25	54	8,058	600	322
OTHER HHS	4,313	98	98	27	16	3,351	424	299
NSF	9,537	2,682	3,215	1,323	609	1,168	192	348
ALL OTHER FEDERAL	16,744	4,742	2,544	1,142	426	4,603	753	2,534
INSTITUTIONAL SUPPORT	101,122	16,633	13,610	4,258	10,723	25,542	9,848	20,508
OTHER OUTSIDE SUPPORT, TOTAL	25,332	8,233	1,694	1,293	1,345	6,986	1,354	4,427
ALL OTHER U.S.	16,282	5,787	1,227	982	750	4,186	1,284	2,064
FOREIGN	9,050	2,446	467	311	595	2,800	70	2,361
SELF-SUPPORT	88,735	18,356	1,768	3,618	7,700	19,979	13,419	23,895
MEN:								
TOTAL, ALL SOURCES	172,251	49,196	20,365	9,032	16,093	36,521	11,413	29,631
FEDERAL, TOTAL	33,803	10,982	6,780	2,211	1,626	8,921	1,016	2,257
DEPT OF DEFENSE	6,285	3,811	716	314	709	305	117	313
DEPT OF HHS, TOTAL	7,633	450	1,152	38	56	5,272	454	209
NIH	4,642	373	1,074	21	41	4,758	259	125
OTHER HHS	991	77	78	17	15	514	201	89
NSF	7,757	2,453	2,744	1,000	524	713	91	224
ALL OTHER FEDERAL	12,128	4,268	2,168	859	347	2,631	344	1,511
INSTITUTIONAL SUPPORT	66,821	14,662	10,734	3,086	7,889	14,430	4,325	11,695
OTHER OUTSIDE SUPPORT, TOTAL	19,371	7,437	1,383	1,045	1,059	4,804	628	3,015
ALL OTHER U.S.	11,751	5,107	997	760	585	2,554	515	1,153
FOREIGN	7,620	2,330	386	285	474	2,250	113	1,862
SELF-SUPPORT	52,256	16,115	1,468	2,690	5,509	8,366	5,444	12,664
WOMEN:								
TOTAL, ALL SOURCES	91,549	6,034	4,832	3,019	5,567	33,684	15,351	23,062
FEDERAL, TOTAL	14,808	1,026	1,345	671	256	8,777	1,127	1,606
DEPT OF DEFENSE	759	198	115	51	78	213	57	47
DEPT OF HHS, TOTAL	7,653	125	383	14	14	6,137	548	412
NIH	4,331	104	363	4	13	3,300	345	202
OTHER HHS	3,322	21	20	10	1	2,837	223	210
NSF	1,780	229	471	323	85	455	93	124
ALL OTHER FEDERAL	4,616	474	376	283	79	1,972	409	1,023
INSTITUTIONAL SUPPORT	34,301	1,971	2,876	1,172	2,834	11,112	5,523	8,813
OTHER OUTSIDE SUPPORT, TOTAL	5,961	796	311	248	286	2,182	726	1,412
ALL OTHER U.S.	4,531	680	230	222	165	1,632	689	913
FOREIGN	1,430	116	81	26	121	550	37	499
SELF-SUPPORT	36,479	2,241	300	928	2,191	11,613	7,975	11,231

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-12. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1983

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/ COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	243,646	53,553	24,476	11,428	19,581	65,185	21,327	43,096
FEDERAL, TOTAL	47,402	11,924	8,047	2,839	1,794	17,221	1,982	3,595
DEPT OF DEFENSE	6,898	3,980	827	363	748	510	135	335
DEPT OF HHS, TOTAL	15,003	575	1,507	46	70	11,194	1,004	607
NIH	10,419	477	1,409	19	54	7,959	584	317
OTHER HHS	4,184	98	98	27	16	3,235	420	290
NSF	9,476	2,674	3,207	1,313	606	1,139	192	345
ALL OTHER FEDERAL	16,025	4,695	2,506	1,117	370	4,378	651	2,308
INSTITUTIONAL SUPPORT	96,188	16,273	13,164	4,061	10,198	24,143	8,794	19,555
OTHER OUTSIDE SUPPORT, TOTAL	24,415	7,968	1,677	1,256	1,196	6,816	1,315	4,187
ALL OTHER U.S.	15,725	5,641	1,215	950	665	4,066	1,250	1,938
FOREIGN	8,690	2,327	462	306	531	2,750	65	2,249
SELF-SUPPORT	75,641	17,388	1,588	3,272	6,393	17,005	9,236	20,759
MEN:								
TOTAL, ALL SOURCES	162,185	47,748	19,847	8,610	14,710	34,552	9,591	27,127
FEDERAL, TOTAL	33,140	10,910	6,736	2,174	1,559	8,749	923	2,089
DEPT OF DEFENSE	6,161	3,785	713	312	678	300	83	290
DEPT OF HHS, TOTAL	7,546	450	1,140	32	56	5,216	448	204
NIH	6,569	373	1,062	15	41	4,710	250	118
OTHER HHS	977	77	78	17	15	506	198	86
NSF	7,715	2,445	2,740	993	521	695	99	222
ALL OTHER FEDERAL	11,718	4,230	2,143	837	304	2,538	293	1,373
INSTITUTIONAL SUPPORT	64,193	14,342	10,411	2,954	7,561	13,785	3,926	11,214
OTHER OUTSIDE SUPPORT, TOTAL	18,721	7,189	1,374	1,013	956	4,719	621	2,849
ALL OTHER U.S.	11,401	4,977	990	733	521	2,506	588	1,086
FOREIGN	7,320	2,212	384	280	435	2,213	33	1,763
SELF-SUPPORT	46,131	15,307	1,326	2,469	4,634	7,299	4,121	10,975
WOMEN:								
TOTAL, ALL SOURCES	81,461	5,805	4,629	2,818	4,871	30,633	11,736	20,969
FEDERAL, TOTAL	14,262	1,014	1,311	665	235	8,472	1,059	1,506
DEPT OF DEFENSE	737	195	114	51	70	210	52	45
DEPT OF HHS, TOTAL	7,457	125	367	14	14	5,978	556	403
NIH	4,250	104	347	4	13	3,249	334	199
OTHER HHS	3,207	21	20	10	1	2,729	222	204
NSF	1,761	229	467	320	85	444	93	123
ALL OTHER FEDERAL	4,307	465	363	280	66	1,840	358	935
INSTITUTIONAL SUPPORT	31,995	1,931	2,753	1,107	2,637	10,358	4,868	8,341
OTHER OUTSIDE SUPPORT, TOTAL	5,694	779	303	243	240	2,097	694	1,338
ALL OTHER U.S.	4,324	664	225	217	144	1,560	662	852
FOREIGN	1,370	115	78	26	96	537	32	486
SELF-SUPPORT	29,510	2,081	262	803	1,759	9,706	5,115	9,784

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-13. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1983

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/ COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	20,154	1,677	721	623	2,079	5,020	5,437	4,997
FEDERAL, TOTAL	1,209	84	78	43	98	477	161	268
DEPT OF DEFENSE	146	29	4	2	39	8	39	25
DEPT OF HHS, TOTAL	283	0	28	6	0	215	20	14
NIH	154	0	28	6	0	99	14	5
OTHER HHS	129	0	0	0	0	116	4	9
NSF	61	8	8	10	3	29	0	3
ALL OTHER FEDERAL	719	47	38	25	56	225	102	226
INSTITUTIONAL SUPPORT	4,934	360	446	197	525	1,399	1,054	953
OTHER OUTSIDE SUPPORT, TOTAL	917	265	17	37	149	170	39	240
ALL OTHER U.S.	557	146	12	32	85	120	34	128
FOREIGN	360	119	5	5	64	50	5	112
SELF-SUPPORT	13,094	968	180	346	1,307	2,974	4,183	3,136
MEN:								
TOTAL, ALL SOURCES	10,066	1,447	518	422	1,383	1,969	1,822	2,504
FEDERAL, TOTAL	663	72	44	37	77	174	93	168
DEPT OF DEFENSE	124	26	3	2	31	5	34	23
DEPT OF HHS, TOTAL	87	0	12	6	0	56	8	5
NIH	73	0	12	6	0	48	5	2
OTHER HHS	14	0	0	0	0	8	3	3
NSF	42	8	4	7	3	18	0	2
ALL OTHER FEDERAL	410	38	25	22	43	93	51	136
INSTITUTIONAL SUPPORT	2,628	320	323	132	328	645	399	481
OTHER OUTSIDE SUPPORT, TOTAL	650	248	9	32	103	85	7	166
ALL OTHER U.S.	350	130	7	27	64	48	7	67
FOREIGN	300	118	2	5	39	37	0	99
SELF-SUPPORT	6,125	808	142	221	875	1,067	1,323	1,689
WOMEN:								
TOTAL, ALL SOURCES	10,088	229	203	201	696	3,051	3,615	2,093
FEDERAL, TOTAL	546	12	34	6	21	305	68	100
DEPT OF DEFENSE	22	3	1	0	8	3	5	2
DEPT OF HHS, TOTAL	196	0	16	0	0	159	12	9
NIH	81	0	16	0	0	51	11	3
OTHER HHS	115	0	0	0	0	108	1	6
NSF	19	0	4	3	0	11	0	1
ALL OTHER FEDERAL	309	9	13	3	13	132	51	88
INSTITUTIONAL SUPPORT	2,306	40	123	65	197	754	695	472
OTHER OUTSIDE SUPPORT, TOTAL	267	17	8	5	44	85	32	74
ALL OTHER U.S.	207	16	5	5	21	72	27	51
FOREIGN	60	1	3	0	25	13	5	13
SELF-SUPPORT	6,969	160	38	125	432	1,907	2,860	1,447

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-14. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY HIGHEST DEGREE GRANTED AND SOURCE AND TYPE OF MAJOR SUPPORT: 1983

HIGHEST DEGREE GRANTED AND SOURCE OF MAJOR SUPPORT	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
ALL INSTITUTIONS:						
TOTAL, ALL SOURCES	263,800	22,244	14,182	55,670	40,599	111,105
FEDERAL, TOTAL	48,611	4,251	9,454	29,246	505	5,155
DEPT OF DEFENSE	7,044	255	84	3,934	0	2,771
DEPT OF HHS, TOTAL	15,284	819	7,878	6,022	112	455
NIH	10,973	580	4,555	5,470	75	293
OTHER HHS	4,313	239	3,323	552	37	162
NSF	9,537	1,309	64	8,072	25	67
ALL OTHER FEDERAL	16,744	1,868	1,428	11,218	368	1,862
INSTITUTIONAL SUPPORT	101,122	10,433	3,559	18,578	59,702	8,850
OTHER OUTSIDE SUPPORT, TOTAL	25,332	7,560	1,169	7,846	392	8,365
ALL OTHER U.S.	16,282	3,885	803	7,286	392	3,916
FOREIGN	9,050	3,675	366	560	0	4,449
SELF-SUPPORT	88,735	0	0	0	0	88,735
DOCTORATE-GRANTING:						
TOTAL, ALL SOURCES	243,646	21,679	13,689	54,198	57,950	96,130
FEDERAL, TOTAL	47,402	4,089	9,194	28,910	469	4,740
DEPT OF DEFENSE	6,898	255	79	3,919	0	2,645
DEPT OF HHS, TOTAL	15,003	799	7,742	5,933	111	418
NIH	10,819	561	4,528	5,386	74	270
OTHER HHS	4,184	238	3,214	547	37	148
NSF	9,476	1,305	50	8,031	25	65
ALL OTHER FEDERAL	16,025	1,730	1,323	11,027	333	1,612
INSTITUTIONAL SUPPORT	96,188	10,195	3,363	17,537	57,115	7,978
OTHER OUTSIDE SUPPORT, TOTAL	24,415	7,395	1,132	7,751	364	7,771
ALL OTHER U.S.	15,725	3,809	781	7,193	364	3,576
FOREIGN	8,690	3,586	351	558	0	4,195
SELF-SUPPORT	75,641	0	0	0	0	75,641
MASTER'S-GRANTING:						
TOTAL, ALL SOURCES	20,154	565	493	1,472	2,649	14,975
FEDERAL, TOTAL	1,209	162	260	336	36	415
DEPT OF DEFENSE	146	0	5	15	0	126
DEPT OF HHS, TOTAL	283	20	136	89	1	37
NIH	154	19	27	84	1	23
OTHER HHS	129	1	109	5	0	14
NSF	61	4	24	41	0	2
ALL OTHER FEDERAL	719	138	105	191	35	250
INSTITUTIONAL SUPPORT	4,934	238	196	1,041	2,587	872
OTHER OUTSIDE SUPPORT, TOTAL	917	165	37	95	26	594
ALL OTHER U.S.	557	76	22	93	26	340
FOREIGN	360	89	15	2	0	254
SELF-SUPPORT	13,094	0	0	0	0	13,094

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-15. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD AND TYPE OF MAJOR SUPPORT: 1983

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	263,800	22,244	14,182	55,670	60,599	111,105
ENGINEERING	55,230	4,888	815	15,700	10,123	23,704
AEROSPACE	1,840	165	31	691	278	675
AGRICULTURAL	766	69	13	433	53	198
BIOMEDICAL	1,031	89	65	326	109	442
CHEMICAL	5,869	878	141	2,255	1,129	1,466
CIVIL	10,242	680	113	2,362	1,501	5,586
ELECTRICAL	13,192	1,062	119	3,199	3,031	5,781
ENGINEERING SCIENCE	1,364	270	33	442	230	389
INDUSTRIAL	4,320	200	94	458	686	2,692
MECHANICAL	8,151	651	84	2,373	2,001	3,242
METALLURGICAL/MATERIALS	2,794	297	22	1,681	275	429
MINING	428	44	13	125	90	156
NUCLEAR	1,052	122	44	436	129	321
PETROLEUM	620	106	16	158	67	273
ENGINEERING, N.E.C.	3,641	255	27	761	544	2,054
PHYSICAL SCIENCES	25,197	1,945	365	9,151	11,284	2,452
ASTRONOMY	585	60	11	279	193	42
CHEMISTRY	15,041	1,166	217	5,192	7,334	1,132
PHYSICS	9,479	714	136	3,646	3,740	1,243
PHYSICAL SCIENCES, N.E.C.	92	5	1	34	17	35
ENVIRONMENTAL SCIENCES	12,051	873	289	3,536	2,886	4,469
ATMOSPHERIC SCIENCES	785	34	8	434	89	220
GEOSCIENCES	8,203	659	134	1,979	2,331	3,100
OCEANOGRAPHY	1,612	100	102	795	171	444
ENVIRONMENTAL SCIENCES, N.E.C.	1,451	80	45	326	295	705
MATHEMATICAL/COMPUTER SCIENCES	21,660	1,181	174	2,208	8,871	9,226
COMPUTER SCIENCE	10,678	487	90	1,403	2,412	6,326
MATHEMATICS AND APPLIED MATHEMATICS	9,417	586	107	527	5,764	2,433
STATISTICS	1,565	108	17	278	695	467
LIFE SCIENCES	70,205	5,676	9,432	16,587	12,772	25,738
AGRICULTURAL SCIENCES	9,836	569	226	4,555	900	3,584
BIOLOGICAL SCIENCES	37,186	3,644	4,388	10,318	9,644	9,192
ANATOMY	937	137	128	152	281	239
BIOCHEMISTRY	4,041	473	606	1,770	692	500
BIOLOGY	9,208	642	746	1,523	3,853	2,439
BIOMETRY/EPIDEMIOLOGY	877	104	244	100	43	384
BIOPHYSICS	443	34	133	163	25	88
BOTANY	3,043	248	62	1,165	851	717
CELL BIOLOGY	1,129	140	376	353	179	81
ECOLOGY	844	103	18	202	308	213
ENTOMOLOGY/PARASITOLOGY	1,305	95	30	771	158	251
GENETICS	964	128	233	238	128	237
MICROBIOLOGY	3,668	393	476	1,126	917	756
NUTRITION	3,015	181	128	1,088	258	1,360
PATHOLOGY	1,073	163	181	223	69	437
PHARMACOLOGY	1,958	287	569	456	240	406
PHYSIOLOGY	1,792	273	251	388	356	524
ZOOLOGY	2,085	160	64	384	1,072	405
BIOSCIENCES, N.E.C.	804	83	141	216	209	155
HEALTH SCIENCES	23,183	1,463	4,818	1,714	2,228	12,960
ANESTHESIOLOGY	27	0	0	0	0	27
CANCER/ONCOLOGY	73	2	55	15	0	1
CARDIOLOGY	24	3	0	0	0	21
DENTISTRY	728	90	61	8	171	398
ENDOCRINOLOGY	64	10	15	11	9	19
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	9	0	1	2	0	6
NEUROLOGY	238	91	71	53	8	35
NURSING	6,204	152	2,687	170	327	2,868
OBSTETRICS/GYNECOLOGY	15	6	2	5	0	2
OPHTHALMOLOGY	7	1	1	0	3	2
OTORHINOLARYNGOLOGY	5	0	4	0	0	1
PEDIATRICS	138	17	44	2	0	75
PHARMACEUTICAL SCIENCES	1,743	216	52	409	640	426
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,956	292	844	241	80	2,519
PSYCHIATRY	80	25	19	9	1	26
PULMONARY DISEASE	2	2	0	0	0	0
RADIOLOGY	169	19	43	40	1	66
SPEECH PATHOLOGY/AUDIOLOGY	5,404	295	514	317	765	3,513
SURGERY	73	2	22	14	14	21
VETERINARY SCIENCES	363	48	7	163	33	92
CLINICAL MEDICINE, N.E.C.	367	64	23	107	41	132
HEALTH RELATED, N.E.C.	3,474	108	353	168	135	2,710
PSYCHOLOGY	26,764	1,272	1,368	2,981	5,029	16,114
SOCIAL SCIENCES	52,693	6,409	1,739	5,909	9,634	29,402
AGRICULTURAL ECONOMICS	2,047	193	31	837	128	858
ANTHROPOLOGY	3,998	578	68	282	909	2,161
ECONOMICS (EXCEPT AGRICULTURAL)	9,281	1,110	204	1,173	2,807	3,987
GEOGRAPHY	2,202	151	27	253	846	925
HISTORY AND PHILOSOPHY OF SCIENCE	229	44	3	7	68	85
LINGUISTICS	2,375	412	54	137	650	1,122
POLITICAL SCIENCE	13,481	2,081	390	1,082	1,826	8,102
SOCIOLOGY	4,815	626	199	612	1,555	1,814
SOCIOLOGY/ANTHROPOLOGY	671	89	11	127	184	284
SOCIAL SCIENCES, N.E.C.	13,994	1,124	746	999	661	10,064

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-16. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD AND TYPE OF MAJOR SUPPORT: 1983

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	243,646	21,679	13,689	54,198	57,950	96,130
ENGINEERING	53,553	4,791	805	15,600	9,920	22,437
AEROSPACE	1,825	165	31	691	278	660
AGRICULTURAL	766	69	13	433	53	198
BIOMEDICAL	1,012	89	65	326	107	425
CHEMICAL	5,790	872	141	2,253	1,120	1,404
CIVIL	9,957	672	113	2,351	1,492	5,329
ELECTRICAL	12,843	1,056	119	3,187	2,980	5,501
ENGINEERING SCIENCE	1,339	269	33	439	220	378
INDUSTRIAL	3,917	199	94	444	667	2,513
MECHANICAL	8,199	651	84	2,349	1,980	3,135
METALLURGICAL/MATERIALS	2,686	297	21	1,675	268	425
MINING	404	44	13	122	80	145
NUCLEAR	1,052	122	44	436	129	321
PETROLEUM	607	106	16	158	63	264
ENGINEERING, N.E.C.	3,156	180	18	736	463	1,739
PHYSICAL SCIENCES	24,476	1,916	354	9,066	10,905	2,235
ASTRONOMY	585	60	11	279	193	42
CHEMISTRY	14,493	1,143	208	5,127	7,038	977
PHYSICS	9,347	710	134	3,632	3,664	1,205
PHYSICAL SCIENCES, N.E.C.	51	3	1	28	8	11
ENVIRONMENTAL SCIENCES	11,428	864	276	3,469	2,748	4,071
ATMOSPHERIC SCIENCES	778	33	8	432	3	217
GEOSCIENCES	7,908	652	126	1,959	2,261	2,910
OCEANOGRAPHY	1,547	100	97	784	154	412
ENVIRONMENTAL SCIENCES, N.E.C.	1,195	79	45	294	245	532
MATHEMATICAL/COMPUTER SCIENCES	19,581	1,158	165	2,144	8,459	7,655
COMPUTER SCIENCE	9,258	473	50	1,367	2,312	5,056
MATHEMATICS AND APPLIED MATHEMATICS	8,766	578	98	500	5,454	2,136
STATISTICS	1,557	107	17	277	693	463
LIFE SCIENCES	65,185	5,567	9,155	16,091	11,956	22,416
AGRICULTURAL SCIENCES	9,397	536	223	4,509	879	3,250
BIOLOGICAL SCIENCES	35,263	3,609	4,360	10,014	8,977	8,303
ANATOMY	937	137	128	152	281	239
BIOCHEMISTRY	4,015	473	606	1,757	692	487
BIOLOGY	7,686	618	727	1,275	3,291	1,775
BIOMETRY/EPIDEMIOLOGY	877	104	246	100	43	384
BIOPHYSICS	443	34	133	163	25	88
BOTANY	3,013	235	61	1,165	843	705
CELL BIOLOGY	1,129	140	376	353	179	81
ECOLOGY	835	103	18	202	300	212
ENTOMOLOGY/PARASITOLOGY	1,305	95	30	771	158	251
GENETICS	919	126	233	238	128	194
MICROBIOLOGY	3,644	393	475	1,126	908	742
NUTRITION	2,895	181	127	1,063	247	1,277
PATHOLOGY	1,068	163	181	222	68	434
PHARMACOLOGY	1,996	287	569	456	240	404
PHYSIOLOGY	1,792	273	251	388	356	524
ZOOLOGY	2,058	160	64	384	1,050	400
BIOSCIENCES, N.E.C.	691	83	135	199	168	106
HEALTH SCIENCES	20,525	1,422	4,572	1,568	2,100	10,863
ANESTHESIOLOGY	27	0	0	0	0	27
CANCER/ONCOLOGY	73	2	55	15	0	1
CARDIOLOGY	3	3	0	0	0	0
DENTISTRY	728	90	61	8	171	398
ENDOCRINOLOGY	64	10	15	11	9	19
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	9	0	1	2	0	6
NEUROLOGY	244	91	57	53	8	35
NURSING	5,717	149	2,570	160	312	2,526
OBSTETRICS/GYNECOLOGY	15	6	2	5	0	2
OPHTHALMOLOGY	7	1	1	0	3	2
OTORHINOLARYNGOLOGY	5	0	4	0	0	1
PEDIATRICS	138	17	44	2	0	75
PHARMACEUTICAL SCIENCES	1,728	215	52	409	632	420
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,921	289	839	217	80	2,496
PSYCHIATRY	80	25	19	9	1	26
PULMONARY DISEASE	2	2	0	0	0	0
RADIOLOGY	169	19	43	40	1	66
SPEECH PATHOLOGY/AUDIOLOGY	4,439	268	441	277	693	2,760
SURGERY	73	2	22	14	14	21
VETERINARY SCIENCES	337	63	3	163	33	75
CLINICAL MEDICINE, N.E.C.	293	64	23	82	30	94
HEALTH RELATED, N.E.C.	2,453	106	320	101	113	1,813
PSYCHOLOGY	21,327	1,210	1,319	2,676	4,655	11,467
SOCIAL SCIENCES	48,096	6,173	1,615	5,152	9,307	25,849
AGRICULTURAL ECONOMICS	1,994	184	31	814	128	837
ANTHROPOLOGY	3,924	578	68	281	889	2,108
ECONOMICS (EXCEPT AGRICULTURAL)	8,925	1,080	201	1,138	2,773	3,733
GEOGRAPHY	2,015	151	22	230	801	811
HISTORY AND PHILOSOPHY OF SCIENCE	229	66	3	7	68	85
LINGUISTICS	2,316	407	54	136	634	1,085
POLITICAL SCIENCE	11,769	1,985	342	933	1,719	6,790
SOCIOLOGY	4,582	627	189	577	1,513	1,676
SOCIOLOGY/ANTHROPOLOGY	596	56	17	120	182	221
SOCIAL SCIENCES, N.E.C.	11,746	1,039	688	916	600	8,503

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-17. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD AND TYPE OF MAJOR SUPPORT: 1983

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	20,154	565	493	1,472	2,649	14,975
ENGINEERING	1,677	97	10	100	203	1,267
AEROSPACE	15	0	0	0	0	15
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	19	0	0	0	2	17
CHEMICAL	79	6	0	2	9	62
CIVIL	285	8	0	11	9	257
ELECTRICAL	342	6	0	12	51	280
ENGINEERING SCIENCE	25	1	0	3	10	11
INDUSTRIAL	213	1	0	14	19	179
MECHANICAL	152	0	0	24	21	107
METALLURGICAL/MATERIALS	18	0	1	6	7	4
MINING	24	0	0	3	10	11
NUCLEAR	0	0	0	0	0	0
PETROLEUM	13	0	0	0	4	9
ENGINEERING, N.E.C.	485	75	9	25	61	315
PHYSICAL SCIENCES	721	29	11	85	379	217
ASTRONOMY	0	0	0	0	0	0
CHEMISTRY	548	23	9	65	296	155
PHYSICS	129	4	2	14	74	35
PHYSICAL SCIENCES, N.E.C.	41	2	0	6	9	24
ENVIRONMENTAL SCIENCES	623	9	13	65	138	398
ATMOSPHERIC SCIENCES	7	1	0	2	1	3
GEOSCIENCES	295	7	8	20	70	190
OCEANOGRAPHY	65	0	5	11	17	32
ENVIRONMENTAL SCIENCES, N.E.C.	296	1	0	32	50	173
MATHEMATICAL/COMPUTER SCIENCES	2,079	23	9	64	412	1,571
COMPUTER SCIENCE	1,420	14	0	36	100	1,270
MATHEMATICS AND APPLIED MATHEMATICS	651	8	9	27	310	297
STATISTICS	8	1	0	1	2	4
LIFE SCIENCES	5,020	109	277	496	816	3,322
AGRICULTURAL SCIENCES	439	33	3	46	21	336
BIOLOGICAL SCIENCES	1,923	35	28	304	667	889
ANATOMY	0	0	0	0	0	0
BIOCHEMISTRY	26	0	0	13	0	13
BIOLOGY	1,522	24	19	248	567	664
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0
BOTANY	30	9	1	0	8	12
CELL BIOLOGY	0	0	0	0	0	0
ECOLOGY	9	0	0	0	8	1
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0
GENETICS	45	2	0	0	0	43
MICROBIOLOGY	24	0	1	0	9	14
NUTRITION	120	0	1	25	11	83
PATHOLOGY	5	0	0	1	1	3
PHARMACOLOGY	2	0	0	0	0	2
PHYSIOLOGY	0	0	0	0	0	0
ZOOLOGY	27	0	6	17	22	5
BIOSCIENCES, N.E.C.	113	0	0	0	41	49
HEALTH SCIENCES	2,658	41	246	146	128	2,097
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0
CARDIOLOGY	1	0	0	0	0	21
DENTISTRY	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0
NEUROLOGY	14	0	14	0	0	0
NURSING	487	3	117	10	15	342
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	15	1	0	0	8	6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	35	3	5	4	0	23
PSYCHIATRY	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	965	27	73	40	72	753
SURGERY	0	0	0	0	0	0
VETERINARY SCIENCES	26	5	4	0	0	17
CLINICAL MEDICINE, N.E.C.	74	0	0	25	11	38
HEALTH RELATED, N.E.C.	1,021	2	33	67	22	897
PSYCHOLOGY	5,437	62	49	305	374	4,647
SOCIAL SCIENCES	4,597	236	124	357	327	3,553
AGRICULTURAL ECONOMICS	53	9	0	23	0	21
ANTHROPOLOGY	74	0	0	1	20	53
ECONOMICS (EXCEPT AGRICULTURAL)	436	30	3	35	34	234
GEOGRAPHY	187	0	5	23	45	114
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	59	5	0	1	16	37
POLITICAL SCIENCE	1,712	96	48	149	107	1,312
SOCIOLOGY	233	8	10	35	42	138
SOCIOLOGY/ANTHROPOLOGY	75	3	0	7	2	63
SOCIAL SCIENCES, N.E.C.	1,848	85	54	83	61	1,561

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-18. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1983

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	263,800	7,476	801	6,476	6,557	168,039	11,654	62,797
ENGINEERING	55,230	668	101	1,770	790	25,218	3,634	23,049
AEROSPACE	1,840	13	0	42	23	768	242	752
AGRICULTURAL	766	7	0	9	8	374	27	341
BIOMEDICAL	1,031	19	1	34	50	671	61	195
CHEMICAL	5,869	64	9	235	60	3,032	230	2,239
CIVIL	10,242	107	13	292	172	4,710	600	4,348
ELECTRICAL	13,192	200	25	458	180	5,260	1,231	5,838
ENGINEERING SCIENCE	1,364	7	1	22	11	591	235	497
INDUSTRIAL	4,130	75	5	127	74	2,273	80	1,496
MECHANICAL	8,351	76	11	213	64	3,567	393	4,027
METALLURGICAL/MATERIALS	2,704	22	26	134	90	1,286	70	1,176
MINING	428	2	1	2	3	253	12	155
NUCLEAR	1,052	9	0	33	7	508	34	461
PETROLEUM	620	5	0	8	6	311	1	290
ENGINEERING, N.E.C.	3,641	62	9	201	85	1,614	478	1,194
PHYSICAL SCIENCES	25,197	412	40	589	446	15,439	1,012	7,219
ASTRONOMY	585	6	1	6	7	433	27	105
CHEMISTRY	13,041	327	29	422	332	9,767	634	1,530
PHYSICS	9,479	78	10	154	145	5,175	345	3,572
PHYSICAL SCIENCES, N.E.C.	92	1	0	7	2	64	6	12
ENVIRONMENTAL SCIENCES	12,051	82	24	158	144	9,262	704	1,677
ATMOSPHERIC SCIENCES	785	8	0	10	8	499	78	182
GEOSCIENCES	8,203	45	17	95	62	6,563	498	923
OCEANOGRAPHY	1,612	17	3	41	66	1,097	27	361
ENVIRONMENTAL SCIENCES, N.E.C.	1,451	12	4	12	8	1,103	101	211
MATHEMATICS/COMPUTER SCIENCES	21,660	371	23	894	310	10,648	1,180	6,233
COMPUTER SCIENCE	10,678	207	11	558	105	5,095	751	3,981
MATHEMATICS AND APPLIED MATHEMATICS	9,417	150	11	304	194	4,825	418	3,515
STATISTICS	1,565	14	1	33	11	768	1	737
LIFE SCIENCES	70,205	1,735	222	1,698	1,807	52,579	1,734	10,430
AGRICULTURAL SCIENCES	9,836	112	20	113	182	6,690	251	2,448
BIOLOGICAL SCIENCES	37,186	841	90	1,030	740	28,041	903	5,541
ANATOMY	937	10	2	25	18	803	3	76
BIOCHEMISTRY	4,041	90	8	151	73	2,930	47	782
BIOLOGY	9,208	356	31	210	315	7,019	290	987
BIOMETRY/EPIDEMIOLOGY	877	35	6	38	5	616	20	157
BIOPHYSICS	443	3	0	16	1	335	8	80
BOTANY	3,043	39	3	61	30	2,231	67	612
CELL BIOLOGY	1,129	9	2	37	9	948	4	120
ECOLOGY	844	3	1	9	5	748	0	78
ENTOMOLOGY/PARASITOLOGY	1,305	14	1	22	9	1,001	18	240
GENETICS	964	21	3	46	10	725	14	145
MICROBIOLOGY	3,668	61	8	106	54	2,804	124	511
NUTRITION	3,015	72	5	92	47	1,846	132	821
PATHOLOGY	1,073	17	2	38	24	779	5	208
PHARMACOLOGY	1,958	28	4	74	55	1,545	6	246
PHYSIOLOGY	1,792	26	6	52	42	1,437	4	215
ZOOLOGY	2,085	48	5	35	26	1,715	106	150
BIOSCIENCES, N.E.C.	804	39	3	18	17	559	55	113
HEALTH SCIENCES	23,183	782	112	595	885	17,848	580	2,421
ANESTHESIOLOGY	27	0	0	0	0	22	5	0
CANCER/ONCOLOGY	73	1	0	4	1	66	0	1
CARDIOLOGY	24	1	0	0	0	20	3	0
DENTISTRY	728	10	2	11	28	548	7	122
ENDOCRINOLOGY	64	3	0	3	3	36	10	9
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	9	0	0	0	0	9	0	0
NEUROLOGY	258	1	0	12	4	212	2	27
NURSING	6,204	238	23	83	249	5,309	143	159
OBSTETRICS/GYNECOLOGY	15	0	0	1	0	12	0	2
OPHTHALMOLOGY	7	0	0	1	0	5	0	1
OTORHINOLARYNGOLOGY	5	0	0	0	0	5	0	0
PEDIATRICS	138	2	1	3	1	107	0	24
PHARMACEUTICAL SCIENCES	1,743	26	3	60	26	994	16	618
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,956	159	27	181	261	2,454	159	715
PSYCHIATRY	80	4	0	5	7	49	8	7
PULMONARY DISEASE	2	0	0	0	0	2	0	0
RADIOLOGY	169	0	2	5	0	122	0	40
SPEECH PATHOLOGY/AUDIOLOGY	5,404	199	27	81	181	4,525	130	261
SURGERY	73	1	0	1	1	56	0	14
VETERINARY SCIENCES	363	14	1	10	0	223	4	111
CLINICAL MEDICINE, N.E.C.	367	6	0	15	4	259	12	71
HEALTH RELATED, N.E.C.	3,474	117	26	79	119	2,813	81	239
PSYCHOLOGY	26,764	1,146	116	369	1,145	21,383	1,514	1,091
SOCIAL SCIENCES	52,693	3,062	275	997	1,875	33,510	1,376	11,098
AGRICULTURAL ECONOMICS	2,047	52	9	15	39	1,153	14	765
ANTHROPOLOGY	3,998	60	23	51	91	3,235	133	405
ECONOMICS (EXCEPT AGRICULTURAL)	9,281	198	14	218	201	4,803	282	3,565
GEOGRAPHY	2,202	42	6	37	28	1,659	44	386
HISTORY AND PHILOSOPHY OF SCIENCE	239	2	0	1	0	186	0	40
LINGUISTICS	2,375	62	11	36	62	1,297	57	850
POLITICAL SCIENCE	13,481	1,067	58	241	956	8,084	733	2,742
SOCIOLOGY	4,815	262	43	109	163	3,073	65	1,100
SOCIOLOGY/ANTHROPOLOGY	671	107	4	13	21	395	2	129
SOCIAL SCIENCES, N.E.C.	13,994	1,210	107	276	714	9,625	546	1,116

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-19. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1983

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	243,646	5,998	668	5,860	5,817	155,417	9,980	59,906
ENGINEERING	53,953	612	91	1,648	749	24,546	3,498	22,409
AEROSPACE	1,829	13	0	42	22	799	242	747
AGRICULTURAL	766	7	0	9	8	374	27	341
BIOMEDICAL	1,012	19	1	34	50	670	43	195
CHEMICAL	5,790	61	9	227	55	3,009	228	2,201
CIVIL	3,957	102	13	233	163	4,602	569	4,175
ELECTRICAL	12,843	180	22	448	173	5,179	1,180	5,661
ENGINEERING SCIENCE	1,339	7	1	21	11	572	234	493
INDUSTRIAL	3,917	62	4	124	73	2,149	74	1,431
MECHANICAL	8,199	73	9	204	61	3,521	376	3,955
METALLURGICAL/MATERIALS	2,686	22	26	134	50	1,276	10	1,168
MINING	404	2	1	2	3	221	12	153
NUCLEAR	1,052	9	0	33	7	508	34	461
PETROLEUM	607	5	0	8	5	302	1	286
ENGINEERING, N.E.C.	3,156	50	5	129	68	1,394	468	1,042
PHYSICAL SCIENCES	24,476	330	34	537	471	15,099	977	7,028
ASTRONOMY	585	6	1	6	7	433	27	105
CHEMISTRY	14,492	254	24	377	317	9,510	606	3,405
PHYSICS	9,347	70	9	150	145	5,118	342	3,513
PHYSICAL SCIENCES, N.E.C.	51	0	0	4	2	38	2	5
ENVIRONMENTAL SCIENCES	11,428	76	23	145	134	8,795	615	1,640
ATMOSPHERIC SCIENCES	778	8	0	10	7	495	78	180
GEOSCIENCES	7,908	44	16	89	56	6,326	469	908
OCEANOGRAPHY	1,547	17	3	38	64	1,038	27	360
ENVIRONMENTAL SCIENCES, N.E.C.	1,195	7	4	8	7	936	41	192
MATHEMATICAL/COMPUTER SCIENCES	19,581	243	14	727	284	9,644	1,052	7,617
COMPUTER SCIENCE	9,258	117	7	442	83	4,417	662	3,530
MATHEMATICS AND APPLIED MATHEMATICS	8,766	112	6	253	190	4,465	389	3,351
STATISTICS	1,557	14	1	32	11	762	1	736
LIFE SCIENCES	65,185	1,367	191	1,608	1,635	48,931	1,485	9,968
AGRICULTURAL SCIENCES	9,397	99	19	103	163	6,428	211	2,374
BIOLOGICAL SCIENCES	35,263	628	78	984	655	26,765	803	5,350
ANATOMY	937	10	2	25	18	803	3	76
BIOCHEMISTRY	4,015	49	7	151	73	2,914	47	774
BIOLOGY	7,686	176	23	175	245	5,995	210	862
BIOMETRY/EPIDEMIOLOGY	877	25	6	38	9	616	20	157
BIOPHYSICS	443	3	0	14	1	335	8	80
BOTANY	3,013	39	3	61	30	2,211	67	602
CELL BIOLOGY	1,129	9	2	37	9	948	4	120
ECOLOGY	835	3	1	9	5	740	0	77
ENTOMOLOGY/PARASITOLOGY	1,305	14	1	22	9	1,001	18	240
GENETICS	919	20	3	44	8	686	14	142
MICROBIOLOGY	2,644	61	8	106	54	2,195	117	903
NUTRITION	2,295	58	4	82	44	1,785	125	802
PATHOLOGY	1,068	17	2	38	24	776	3	208
PHARMACOLOGY	1,956	28	4	74	55	1,544	6	245
PHYSIOLOGY	1,792	36	6	52	42	1,437	4	215
ZOOLOGY	2,058	48	5	35	25	1,691	106	148
BIOSCIENCES, N.E.C.	691	22	1	17	8	493	51	99
HEALTH SCIENCES	20,525	640	94	521	817	15,738	471	2,244
ANESTHESIOLOGY	27	0	0	0	0	22	5	0
CANCER/ONCOLOGY	73	1	0	4	1	66	0	1
CARDIOLOGY	3	0	0	0	0	0	3	0
DENTISTRY	728	10	2	11	28	548	7	122
ENDOCRINOLOGY	64	3	0	3	3	36	10	9
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	9	0	0	0	0	9	0	0
NEUROLOGY	244	1	0	12	4	198	2	27
NURSING	5,717	183	23	81	237	4,923	121	149
OBSTETRICS/GYNECOLOGY	15	0	0	0	0	12	0	2
OPHTHALMOLOGY	7	0	0	1	0	5	0	1
OTORHINOLARYNGOLOGY	5	0	0	0	0	5	0	0
PEDIATRICS	138	2	1	3	1	107	0	24
PHARMACEUTICAL SCIENCES	1,728	26	2	59	28	987	16	612
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,921	158	25	181	257	2,431	159	710
PSYCHIATRY	80	4	0	5	7	49	8	7
PULMONARY DISEASE	2	0	0	0	0	2	0	0
RADIOLOGY	169	0	2	5	0	122	0	40
SPEECH PATHOLOGY/AUDIOLOGY	4,439	195	22	70	156	3,715	83	238
SURGERY	73	1	0	1	1	56	0	14
VETERINARY SCIENCES	337	5	1	10	0	222	1	98
CLINICAL MEDICINE, N.E.C.	293	3	0	8	3	220	6	53
HEALTH RELATED, N.E.C.	2,453	88	16	64	99	2,003	50	137
PSYCHOLOGY	21,327	863	87	290	897	17,327	958	905
SOCIAL SCIENCES	48,096	2,907	228	905	1,647	31,075	1,395	10,339
AGRICULTURAL ECONOMICS	1,994	42	9	15	38	1,151	24	725
ANTHROPOLOGY	3,924	99	23	51	90	3,184	118	399
ECONOMICS (EXCEPT AGRICULTURAL)	8,925	178	9	216	190	4,706	228	3,388
GEOGRAPHY	2,015	34	5	33	26	1,532	18	367
HISTORY AND PHILOSOPHY OF SCIENCE	229	2	0	1	0	186	0	40
LINGUISTICS	2,316	62	11	36	58	1,292	20	837
POLITICAL SCIENCE	11,769	793	43	210	477	7,238	582	2,426
SOCIOLOGY	4,582	217	39	101	151	2,952	51	1,071
SOCIOLOGY/ANTHROPOLOGY	596	94	2	13	17	341	2	127
SOCIAL SCIENCES, N.E.C.	11,746	1,026	87	229	600	8,493	352	959

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-20. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1983

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	20,154	1,478	133	616	740	12,622	1,674	2,891
ENGINEERING	1,677	56	10	122	41	672	136	640
AEROSPACE	15	0	0	0	1	9	0	5
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	19	0	0	0	0	1	18	0
CHEMICAL	79	3	0	8	5	23	2	38
CIVIL	285	5	0	19	9	108	31	113
ELECTRICAL	349	20	3	10	7	81	51	177
ENGINEERING SCIENCE	25	0	0	1	0	19	1	4
INDUSTRIAL	213	13	1	3	1	124	6	65
MECHANICAL	152	3	2	9	3	46	17	72
METALLURGICAL/MATERIALS	18	0	0	0	0	10	0	8
MINING	24	0	0	0	0	22	0	2
NUCLEAR	0	0	0	0	0	0	0	0
PETROLEUM	13	0	0	0	0	9	0	4
ENGINEERING, N.E.C.	485	12	4	72	15	220	10	152
PHYSICAL SCIENCES	721	82	6	52	15	340	35	191
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	548	73	5	45	15	257	28	125
PHYSICS	132	8	1	4	0	57	3	59
PHYSICAL SCIENCES, N.E.C.	41	1	0	3	0	26	4	7
ENVIRONMENTAL SCIENCES	623	6	1	13	10	467	89	37
ATMOSPHERIC SCIENCES	7	0	0	0	1	4	0	2
GEOSCIENCES	295	1	1	6	6	237	29	15
OCEANOGRAPHY	65	0	0	3	2	59	0	1
ENVIRONMENTAL SCIENCES, N.E.C.	256	5	0	4	1	167	60	19
MATHEMATICAL/COMPUTER SCIENCES	2,079	128	9	168	26	1,004	128	616
COMPUTER SCIENCE	1,420	90	4	116	22	638	99	451
MATHEMATICS AND APPLIED MATHEMATICS	651	38	5	51	4	360	29	164
STATISTICS	8	0	0	1	0	6	0	1
LIFE SCIENCES	5,020	368	31	90	172	3,648	249	462
AGRICULTURAL SCIENCES	439	13	1	10	19	262	40	94
BIOLOGICAL SCIENCES	1,923	212	12	46	85	1,276	100	191
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	26	1	1	0	0	16	0	8
BIOLOGY	1,522	180	8	35	70	1,024	80	125
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	30	0	0	0	0	20	0	10
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	9	0	0	0	0	8	0	1
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	45	1	0	0	2	39	0	3
MICROBIOLOGY	24	0	0	0	0	9	7	8
NUTRITION	120	14	1	10	3	66	7	19
PATHOLOGY	5	0	0	0	0	3	2	0
PHARMACOLOGY	2	0	0	0	0	1	0	1
PHYSIOLOGY	0	0	0	0	0	0	0	0
ZOOLOGY	27	0	0	0	1	24	0	2
BIOSCIENCES, N.E.C.	113	17	2	1	9	66	4	14
HEALTH SCIENCES	2,658	142	18	34	68	2,110	109	177
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	21	1	0	0	0	20	0	0
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	14	0	0	0	0	14	0	0
NURSING	437	55	0	2	12	386	22	10
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	15	0	1	1	0	7	0	6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	35	1	2	0	4	23	0	5
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	965	44	5	11	25	810	47	23
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	26	9	0	0	0	1	3	12
CLINICAL MEDICINE, N.E.C.	74	3	0	7	1	39	6	18
HEALTH RELATED, N.E.C.	1,021	29	10	13	26	810	31	102
PSYCHOLOGY	5,437	283	29	79	248	4,056	556	186
SOCIAL SCIENCES	4,997	588	47	92	228	2,435	481	759
AGRICULTURAL ECONOMICS	53	10	0	0	1	2	0	40
ANTHROPOLOGY	74	1	0	0	1	51	15	6
ECONOMICS (EXCEPT AGRICULTURAL)	396	20	5	3	11	97	44	177
GEOGRAPHY	187	8	1	1	2	127	26	19
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	59	0	0	0	4	5	37	13
POLITICAL SCIENCE	1,712	274	15	31	79	846	151	316
SOCIOLOGY	233	45	4	8	12	121	14	29
SOCIOLOGY/ANTHROPOLOGY	75	13	2	0	4	54	0	2
SOCIAL SCIENCES, N.E.C.	1,848	184	20	47	114	1,132	194	157

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-21. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, SEX, AND TYPE OF CONTROL: 1983

FIELD	TOTAL	SEX		TYPE OF CONTROL	
		MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	149,764	87,821	61,943	90,310	59,454
ENGINEERING	37,487	33,287	4,200	19,910	17,577
AEROSPACE	568	523	45	370	198
AGRICULTURAL	203	188	15	203	0
BIOMEDICAL	213	170	43	122	91
CHEMICAL	1,694	1,447	247	1,092	602
CIVIL	5,164	4,593	571	3,134	2,030
ELECTRICAL	11,588	10,593	995	5,089	6,499
ENGINEERING SCIENCE	917	762	155	600	317
INDUSTRIAL	6,511	5,478	1,033	2,244	4,267
MECHANICAL	4,590	4,268	322	2,628	1,962
METALLURGICAL/MATERIALS	741	618	123	390	391
MINING	96	90	6	89	7
NUCLEAR	151	141	10	141	10
PETROLEUM	117	108	9	29	88
ENGINEERING, N.E.C.	4,934	4,308	626	3,819	1,115
PHYSICAL SCIENCES	4,251	3,210	1,041	2,812	1,439
ASTRONOMY	33	26	7	31	2
CHEMISTRY	2,778	1,948	830	1,776	1,002
PHYSICS	1,306	1,143	163	871	435
PHYSICAL SCIENCES, N.E.C.	134	93	41	134	0
ENVIRONMENTAL SCIENCES	3,574	2,620	954	3,145	429
ATMOSPHERIC SCIENCES	111	99	12	100	11
GEOSCIENCES	2,118	1,559	559	1,882	236
OCEANOGRAPHY	505	383	122	465	40
ENVIRONMENTAL SCIENCES, N.E.C.	840	579	261	698	142
MATHEMATICAL/COMPUTER SCIENCES	19,697	13,328	6,369	10,875	8,822
COMPUTER SCIENCE	13,165	9,116	4,049	6,661	6,504
MATHEMATICS AND APPLIED MATHEMATICS	6,170	3,890	2,280	3,897	2,273
STATISTICS	462	322	140	317	145
LIFE SCIENCES	33,694	10,315	23,379	23,999	9,695
AGRICULTURAL SCIENCES	2,454	1,835	619	2,436	18
BIOLOGICAL SCIENCES	9,022	4,395	4,627	6,639	2,383
ANATOMY	116	74	42	73	43
BIOCHEMISTRY	230	123	107	147	83
BIOLOGY	4,084	2,137	1,947	2,898	1,186
BIOMETRY/EPIDEMIOLOGY	279	123	156	173	106
BIOPHYSICS	13	10	3	12	1
BOTANY	407	250	157	377	30
CELL BIOLOGY	44	26	18	29	15
ECOLOGY	163	109	54	141	22
ENTOMOLOGY/PARASITOLOGY	170	121	49	169	1
GENETICS	71	25	46	28	43
MICROBIOLOGY	556	261	295	428	128
NUTRITION	1,380	268	1,112	1,074	306
PATHOLOGY	429	223	206	235	194
PHARMACOLOGY	139	88	51	100	39
PHYSIOLOGY	228	145	83	154	74
ZOOLOGY	378	239	139	348	30
BIOSCIENCES, N.E.C.	335	173	162	253	82
HEALTH SCIENCES	22,218	4,085	18,133	14,924	7,294
ANESTHESIOLOGY	16	6	10	14	2
CANCER/ONCOLOGY	1	1	0	1	0
CARDIOLOGY	10	4	4	0	10
DENTISTRY	88	65	23	41	47
ENDOCRINOLOGY	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	1	0	1	1	0
NEUROLOGY	3	3	0	3	0
NURSING	10,741	389	10,352	7,502	3,239
OBSTETRICS/GYNECOLOGY	2	1	1	2	0
OPHTHALMOLOGY	3	2	1	3	0
OTORHINOLARYNGOLOGY	1	1	0	1	0
PEDIATRICS	13	2	11	3	10
PHARMACEUTICAL SCIENCES	871	564	307	264	607
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,725	1,041	1,684	1,387	1,338
PSYCHIATRY	69	31	38	64	5
PULMONARY DISEASE	0	0	0	0	0
RADIOLOGY	62	52	10	61	1
SPEECH PATHOLOGY/AUDIOLOGY	3,447	411	3,036	3,019	428
SURGERY	22	18	4	21	1
VETERINARY SCIENCES	103	63	40	103	0
CLINICAL MEDICINE, N.E.C.	372	111	261	209	163
HEALTH RELATED, N.E.C.	3,668	1,318	2,350	2,225	1,443
PSYCHOLOGY	14,370	5,289	9,081	7,782	6,588
SOCIAL SCIENCES	36,691	19,772	16,919	21,787	14,904
AGRICULTURAL ECONOMICS	248	186	62	246	2
ANTHROPOLOGY	1,695	709	986	1,315	380
ECONOMICS (EXCEPT AGRICULTURAL)	4,306	3,059	1,247	2,219	2,087
GEOGRAPHY	853	560	298	831	27
HISTORY AND PHILOSOPHY OF SCIENCE	24	16	8	20	4
LINGUISTICS	647	192	455	458	189
POLITICAL SCIENCE	14,794	8,586	6,208	8,406	6,388
SOCIOLOGY	2,136	931	1,205	1,552	584
SOCIOLOGY/ANTHROPOLOGY	511	266	245	198	313
SOCIAL SCIENCES, N.E.C.	11,472	5,267	6,205	6,542	4,930

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-22. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD, SEX, AND TYPE OF CONTROL: 1983

FIELD	TOTAL	SEX		TYPE OF CONTROL	
		MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	114,630	69,005	45,625	67,354	47,276
ENGINEERING	22,420	28,732	3,688	17,090	15,330
AEROSPACE	551	507	44	370	181
AGRICULTURAL	203	188	15	203	0
BIOMEDICAL	173	142	31	99	74
CHEMICAL	1,562	1,339	223	1,018	544
CIVIL	4,549	4,033	516	2,646	1,903
ELECTRICAL	10,269	9,384	885	4,525	5,744
ENGINEERING SCIENCE	642	533	109	588	54
INDUSTRIAL	5,816	4,873	943	1,894	3,922
MECHANICAL	3,920	3,626	294	2,373	1,547
METALLURGICAL/MATERIALS	650	536	114	322	328
MINING	94	88	6	87	7
NUCLEAR	151	141	10	141	10
PETROLEUM	117	108	9	29	88
ENGINEERING, N.E.C.	3,723	3,234	489	2,795	928
PHYSICAL SCIENCES	3,225	2,484	741	2,032	1,193
ASTRONOMY	33	26	7	31	2
CHEMISTRY	2,042	1,445	597	1,248	794
PHYSICS	1,142	1,005	137	745	397
PHYSICAL SCIENCES, N.E.C.	8	8	0	8	0
ENVIRONMENTAL SCIENCES	2,855	2,084	771	2,463	392
ATMOSPHERIC SCIENCES	106	94	12	95	11
GEOSCIENCES	1,778	1,287	491	1,542	236
OCEANOGRAPHY	414	318	96	374	40
ENVIRONMENTAL SCIENCES, N.E.C.	557	385	172	452	105
MATHEMATICAL/COMPUTER SCIENCES	13,884	9,484	4,400	7,116	6,768
COMPUTER SCIENCE	9,264	6,443	2,821	4,630	4,634
MATHEMATICS AND APPLIED MATHEMATICS	4,268	2,795	1,473	2,203	2,065
STATISTICS	352	246	106	283	69
LIFE SCIENCES	26,110	7,842	18,268	18,953	7,557
AGRICULTURAL SCIENCES	2,118	1,580	534	2,100	18
BIOLOGICAL SCIENCES	6,410	3,111	3,299	4,583	1,827
ANATOMY	126	74	42	73	43
BIOCHEMISTRY	216	118	98	147	69
BIOLOGY	2,038	1,045	993	1,170	868
BIOMETRY/EPIDEMIOLOGY	279	123	156	173	106
BIOPHYSICS	13	10	3	12	1
BOTANY	392	241	151	370	22
CELL BIOLOGY	44	26	18	29	15
ECOLOGY	127	92	35	127	0
ENTOMOLOGY/PARASITOLOGY	170	121	49	169	1
GENETICS	67	25	42	28	39
MICROBIOLOGY	455	222	233	363	92
NUTRITION	1,201	258	943	964	237
PATHOLOGY	391	197	194	215	176
PHARMACOLOGY	135	86	49	100	35
PHYSIOLOGY	228	145	83	154	74
ZOOLOGY	365	231	134	341	24
BIOSCIENCES, N.E.C.	173	97	76	148	25
HEALTH SCIENCES	17,582	3,151	14,431	11,870	5,712
ANESTHESIOLOGY	16	6	10	14	2
CANCER/ONCOLOGY	1	1	0	1	0
CARDIOLOGY	0	0	0	0	0
DENTISTRY	88	65	23	41	47
ENDOCRINOLOGY	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	1	0	1	1	0
NEUROLOGY	3	3	0	3	0
NURSING	9,207	316	8,891	6,624	2,583
OBSTETRICS/GYNECOLOGY	2	1	1	2	0
OPHTHALMOLOGY	3	2	1	3	0
OTORHINOLARYNGOLOGY	1	1	0	1	0
PEDIATRICS	13	2	11	3	10
PHARMACEUTICAL SCIENCES	857	556	301	264	593
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,573	1,001	1,572	1,294	1,279
PSYCHIATRY	69	31	38	64	5
PULMONARY DISEASE	0	0	0	0	0
RADIOLOGY	62	52	10	61	1
SPEECH PATHOLOGY/AUDIOLOGY	2,351	346	2,005	2,003	348
SURGERY	22	18	4	21	1
VETERINARY SCIENCES	103	63	40	103	0
CLINICAL MEDICINE, N.E.C.	116	53	63	98	18
HEALTH RELATED, N.E.C.	2,094	634	1,460	1,269	825
PSYCHOLOGY	7,768	3,127	4,641	3,795	3,973
SOCIAL SCIENCES	28,368	15,252	13,116	16,305	12,063
AGRICULTURAL ECONOMICS	243	183	60	241	2
ANTHROPOLOGY	1,524	644	880	1,144	380
ECONOMICS (EXCEPT AGRICULTURAL)	3,515	2,541	974	1,873	1,642
GEOGRAPHY	612	396	216	587	25
HISTORY AND PHILOSOPHY OF SCIENCE	24	16	8	20	4
LINGUISTICS	497	167	330	308	189
POLITICAL SCIENCE	10,612	6,157	4,455	5,523	5,089
SOCIOLOGY	1,809	809	1,000	1,244	565
SOCIOLOGY/ANTHROPOLOGY	418	226	192	170	248
SOCIAL SCIENCES, N.E.C.	9,114	4,313	5,001	5,195	3,919

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-23. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD, SEX, AND TYPE OF CONTROL: 1983

FIELD	TOTAL	SEX		TYPE OF CONTROL	
		MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	35,134	18,816	16,318	22,956	12,178
ENGINEERING	5,067	4,555	512	2,820	2,247
AEROSPACE	17	16	1	0	17
AGRICULTURAL	0	0	0	0	0
BIOMEDICAL	40	28	12	23	17
CHEMICAL	132	108	24	74	58
CIVIL	615	560	55	488	127
ELECTRICAL	1,319	1,209	110	564	755
ENGINEERING SCIENCE	275	229	46	12	263
INDUSTRIAL	695	605	90	350	345
MECHANICAL	670	642	28	255	415
METALLURGICAL/MATERIALS	91	82	9	28	63
MINING	2	2	0	2	0
NUCLEAR	0	0	0	0	0
PETROLEUM	0	0	0	0	0
ENGINEERING, N.E.C.	1,211	1,074	137	1,024	187
PHYSICAL SCIENCES	1,026	726	300	780	246
ASTRONOMY	0	0	0	0	0
CHEMISTRY	726	503	223	528	208
PHYSICS	164	138	26	126	38
PHYSICAL SCIENCES, N.E.C.	126	85	41	126	0
ENVIRONMENTAL SCIENCES	719	536	183	682	37
ATMOSPHERIC SCIENCES	5	5	0	5	0
GEOSCIENCES	340	272	68	340	0
OCEANOGRAPHY	91	65	26	91	0
ENVIRONMENTAL SCIENCES, N.E.C.	283	194	89	246	37
MATHEMATICAL/COMPUTER SCIENCES	5,813	3,844	1,969	3,759	2,054
COMPUTER SCIENCE	3,901	2,673	1,228	2,031	1,870
MATHEMATICS AND APPLIED MATHEMATICS	1,802	1,095	707	1,694	108
STATISTICS	110	76	34	34	76
LIFE SCIENCES	7,584	2,473	5,111	5,446	2,138
AGRICULTURAL SCIENCES	336	255	81	336	0
BIOLOGICAL SCIENCES	2,612	1,284	1,328	2,056	556
ANATOMY	0	0	0	0	0
BIOCHEMISTRY	14	5	9	0	14
BIOLOGY	2,046	1,092	954	1,728	318
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0
BOTANY	15	9	6	7	8
CELL BIOLOGY	0	0	0	0	0
ECOLOGY	36	17	19	14	22
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0
GENETICS	4	0	4	0	4
MICROBIOLOGY	101	39	62	65	36
NUTRITION	179	10	169	110	69
PATHOLOGY	38	26	12	20	18
PHARMACOLOGY	4	2	2	0	4
PHYSIOLOGY	0	0	0	0	0
ZOOLOGY	13	8	5	7	6
BIOSCIENCES, N.E.C.	162	76	86	105	57
HEALTH SCIENCES	4,636	934	3,702	3,054	1,582
ANESTHESIOLOGY	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0
CARDIOLOGY	10	6	4	0	10
DENTISTRY	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0
NEUROLOGY	0	0	0	0	0
NURSING	1,534	73	1,461	878	656
OBSTETRICS/GYNECOLOGY	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0
PEDIATRICS	0	0	0	0	0
PHARMACEUTICAL SCIENCES	14	8	6	0	14
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	152	40	112	93	59
PSYCHIATRY	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0
RADIOLOGY	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	1,096	65	1,031	1,016	80
SURGERY	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	254	58	198	111	145
HEALTH RELATED, N.E.C.	1,574	684	890	956	618
PSYCHOLOGY	6,602	2,162	4,440	3,987	2,615
SOCIAL SCIENCES	8,323	4,520	3,803	5,482	2,841
AGRICULTURAL ECONOMICS	5	3	2	5	0
ANTHROPOLOGY	171	65	106	171	0
ECONOMICS (EXCEPT AGRICULTURAL)	791	518	273	346	445
GEOGRAPHY	246	164	82	244	2
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0
LINGUISTICS	150	25	125	150	0
POLITICAL SCIENCE	4,182	2,429	1,753	2,883	1,299
SOCIOLOGY	327	122	205	308	19
SOCIOLOGY/ANTHROPOLOGY	93	40	53	28	65
SOCIAL SCIENCES, N.E.C.	2,358	1,154	1,204	1,347	1,011

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 424. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1983

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	149,764	7,011	445	4,198	4,685	108,877	12,959	11,589
ENGINEERING	37,487	751	84	1,643	708	24,533	5,106	4,662
AEROSPACE	568	2	1	22	5	446	35	57
AGRICULTURAL	203	1	0	2	0	127	24	49
BIOMEDICAL	313	3	0	5	0	116	42	27
CHEMICAL	1,694	24	2	76	29	1,224	63	276
CIVIL	5,164	81	11	208	126	3,139	623	980
ELECTRICAL	11,588	166	23	695	212	6,731	2,185	1,616
ENGINEERING SCIENCE	917	17	2	20	7	582	203	86
INDUSTRIAL	6,511	253	15	142	179	4,839	698	385
MECHANICAL	4,590	59	8	212	61	3,222	425	603
METALLURGICAL/MATERIALS	741	15	1	16	4	570	62	73
MINING	96	0	0	0	0	72	1	23
NUCLEAR	151	2	1	8	1	111	5	23
PETROLEUM	117	1	0	5	1	67	2	41
ENGINEERING, N.E.C.	4,934	127	20	272	83	3,291	718	423
PHYSICAL SCIENCES	4,291	162	5	159	113	3,177	306	429
ASTRONOMY	33	1	0	1	0	28	0	3
CHEMISTRY	2,778	112	3	136	71	1,990	173	291
PHYSICS	1,306	28	2	22	41	1,056	27	130
PHYSICAL SCIENCES, N.E.C.	134	21	0	0	1	103	4	5
ENVIRONMENTAL SCIENCES	3,574	29	3	85	81	3,077	122	177
ATMOSPHERIC SCIENCES	111	1	1	0	2	98	0	9
GEOSCIENCES	2,118	16	1	24	22	1,879	88	88
OCEANOGRAPHY	505	4	0	44	50	379	1	25
ENVIRONMENTAL SCIENCES, N.E.C.	840	8	1	15	7	721	33	55
MATHEMATICAL/COMPUTER SCIENCES	19,697	600	32	818	305	13,399	2,124	2,419
COMPUTER SCIENCE	13,165	359	11	589	178	8,612	1,725	1,691
MATHEMATICS AND APPLIED MATHEMATICS	6,070	230	20	210	123	4,464	376	647
STATISTICS	462	11	1	19	4	323	23	81
LIFE SCIENCES	33,694	1,535	123	681	814	27,527	1,580	1,434
AGRICULTURAL SCIENCES	2,454	21	12	20	41	1,977	159	224
BIOLOGICAL SCIENCES	9,022	334	31	250	195	7,044	613	595
ANATOMY	116	3	0	1	2	99	4	7
BIOCHEMISTRY	230	6	1	8	15	159	6	35
BIOLOGY	4,084	184	18	96	91	3,287	243	165
BIOMETRY/EPIDEMIOLOGY	279	9	1	9	9	230	1	20
BIOPHYSICS	13	0	0	3	0	10	0	1
BOTANY	407	8	0	7	4	329	10	49
CELL BIOLOGY	44	1	0	1	0	40	0	2
ECOLOGY	163	1	0	0	2	141	3	16
ENTOMOLOGY/PARASITOLOGY	170	3	1	4	2	134	10	16
GENETICS	71	1	0	2	1	58	2	7
MICROBIOLOGY	556	3	2	18	9	341	132	51
NUTRITION	1,380	62	4	67	32	1,034	68	113
PATHOLOGY	429	9	0	4	4	291	89	32
PHARMACOLOGY	139	6	0	3	4	118	2	6
PHYSIOLOGY	228	2	3	6	3	199	6	9
ZOOLOGY	378	13	0	8	8	308	25	16
BIOSCIENCES, N.E.C.	335	23	1	14	9	266	12	10
HEALTH SCIENCES	22,218	1,180	80	411	578	18,506	808	655
ANESTHESIOLOGY	16	0	0	0	0	7	9	0
CANCER/ONCOLOGY	1	0	0	0	0	1	0	0
CARDIOLOGY	10	0	0	0	0	10	0	0
DENTISTRY	88	4	2	3	3	66	1	9
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	1	1	0	0	0	0	0	0
NEUROLOGY	3	0	0	0	0	3	0	0
NURSING	10,741	518	24	166	251	9,534	129	119
OBSTETRICS/GYNECOLOGY	2	0	0	0	0	2	0	0
OPHTHALMOLOGY	3	0	0	0	0	3	0	0
OTORHINOLARYNGOLOGY	1	0	0	0	0	1	0	0
PEDIATRICS	13	1	0	0	0	9	0	3
PHARMACEUTICAL SCIENCES	871	16	5	47	3	566	85	149
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,725	165	8	82	124	2,045	194	107
PSYCHIATRY	69	4	1	0	1	59	0	4
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	62	1	0	1	0	56	0	4
SPEECH PATHOLOGY/AUDIOLOGY	3,447	194	25	30	68	2,858	196	76
SURGERY	22	0	0	0	1	21	0	0
VETERINARY SCIENCES	103	2	0	2	1	76	8	14
CLINICAL MEDICINE, N.E.C.	372	46	1	9	2	280	13	21
HEALTH RELATED, N.E.C.	3,668	228	14	71	124	2,909	173	149
PSYCHOLOGY	14,370	771	44	164	684	11,347	1,020	340
SOCIAL SCIENCES	36,691	3,163	154	644	1,980	25,817	2,801	2,128
AGRICULTURAL ECONOMICS	248	3	0	3	5	175	3	59
ANTHROPOLOGY	1,695	22	15	16	41	1,373	152	76
ECONOMICS (EXCEPT AGRICULTURAL)	4,306	266	10	113	143	2,634	455	685
GEOGRAPHY	858	29	0	14	10	726	24	55
HISTORY AND PHILOSOPHY OF SCIENCE	24	1	0	0	0	22	0	1
LINGUISTICS	647	10	1	15	47	446	39	89
POLITICAL SCIENCE	14,794	1,634	60	316	1,266	9,654	1,263	601
SOCIOLOGY	2,136	177	13	43	67	1,518	88	230
SOCIOLOGY/ANTHROPOLOGY	511	71	4	4	25	371	17	19
SOCIAL SCIENCES, N.E.C.	11,472	950	51	124	376	8,898	760	313

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-25. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1983

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	114,630	4,848	328	2,981	3,464	84,123	9,191	9,695
ENGINEERING	32,420	597	69	1,179	585	21,282	4,636	4,072
AEROSPACE	951	1	1	22	2	434	35	56
AGRICULTURAL	203	1	0	2	0	127	24	49
BIOMEDICAL	173	3	0	5	0	103	35	27
CHEMICAL	1,562	15	2	65	26	1,125	62	263
CIVIL	4,549	99	9	162	101	2,813	531	874
ELECTRICAL	10,269	136	17	448	179	5,951	2,012	1,536
ENGINEERING SCIENCE	642	9	2	14	5	338	195	79
INDUSTRIAL	5,816	218	13	121	166	4,285	644	349
MECHANICAL	3,920	44	7	162	47	2,781	350	523
METALLURGICAL/MATERIALS	650	11	1	15	3	501	57	62
MINING	94	0	0	0	0	70	1	23
NUCLEAR	151	2	1	8	1	111	5	23
PETROLEUM	117	1	0	5	1	67	2	41
ENGINEERING, N.E.C.	3,723	103	16	150	54	2,576	663	161
PHYSICAL SCIENCES	3,225	96	3	103	104	2,479	113	327
ASTRONOMY	33	1	0	1	0	28	0	3
CHEMISTRY	2,042	76	2	84	64	1,517	89	210
PHYSICS	1,142	19	1	18	40	927	24	113
PHYSICAL SCIENCES, N.E.C.	8	0	0	0	0	7	0	1
ENVIRONMENTAL SCIENCES	2,855	22	1	63	65	2,500	55	149
ATMOSPHERIC SCIENCES	106	1	1	0	2	93	0	9
GEOSCIENCES	1,778	12	0	17	14	1,620	39	76
OCEANOGRAPHY	414	4	0	44	48	294	1	23
ENVIRONMENTAL SCIENCES, N.E.C.	557	5	0	2	1	493	15	41
MATHEMATICAL/COMPUTER SCIENCES	13,884	403	19	554	206	9,370	1,438	1,894
COMPUTER SCIENCE	9,264	255	6	411	112	5,964	1,169	1,347
MATHEMATICS AND APPLIED MATHEMATICS	4,268	140	12	131	91	3,164	262	468
STATISTICS	352	8	1	12	3	242	7	79
LIFE SCIENCES	26,110	1,048	84	523	579	21,726	990	1,160
AGRICULTURAL SCIENCES	2,118	17	7	13	37	1,728	115	201
BIOLOGICAL SCIENCES	6,410	183	17	167	126	5,098	369	450
ANATOMY	116	3	0	1	2	99	4	7
BIOCHEMISTRY	216	6	1	8	12	149	6	34
BIOLOGY	2,038	65	7	35	44	1,737	62	88
BIOMETRY/EPIDEMIOLOGY	279	9	1	9	9	230	1	20
BIOPHYSICS	13	0	0	2	0	10	0	1
BOTANY	392	8	0	7	4	314	10	49
CELL BIOLOGY	44	1	0	1	0	40	0	2
ECOLOGY	127	0	0	0	0	109	2	16
ENTOMOLOGY/PARASITOLOGY	170	3	1	4	2	134	10	16
GENETICS	67	0	0	2	1	55	2	7
MICROBIOLOGY	455	3	1	10	4	306	95	36
NUTRITION	1,201	51	3	61	27	890	64	105
PATHOLOGY	391	9	0	4	4	273	69	32
PHARMACOLOGY	195	6	0	2	4	115	2	6
PHYSIOLOGY	228	2	0	6	3	199	6	9
ZOOLOGY	365	13	3	8	8	295	25	16
BIOSCIENCES, N.E.C.	173	4	0	7	2	143	11	6
HEALTH SCIENCES	17,582	848	60	343	416	14,900	506	509
ANESTHESIOLOGY	16	0	0	0	0	7	9	0
CANCER/ONCOLOGY	1	0	0	0	0	1	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0
DENTISTRY	88	4	2	3	3	66	1	9
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	1	1	0	0	0	0	0	0
NEUROLOGY	3	0	0	0	0	3	0	0
NURSING	9,207	432	19	140	164	8,294	67	89
OBSTETRICS/GYNECOLOGY	2	0	0	0	0	2	0	0
OPHTHALMOLOGY	3	0	0	0	0	3	0	0
OTORHINOLARYNGOLOGY	1	0	0	0	0	1	0	0
PEDIATRICS	13	1	0	0	0	9	0	3
PHARMACEUTICAL SCIENCES	857	16	5	47	3	552	85	149
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,573	152	8	81	118	1,925	187	102
PSYCHIATRY	69	4	1	0	1	59	0	4
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	62	1	0	1	0	56	0	4
SPEECH PATHOLOGY/AUDIOLOGY	2,351	101	16	15	48	2,049	63	59
SURGERY	22	0	0	0	1	21	0	0
VETERINARY SCIENCES	133	2	0	2	1	76	8	14
CLINICAL MEDICINE, N.E.C.	116	4	0	0	0	96	4	12
HEALTH RELATED, N.E.C.	2,094	130	9	54	75	1,680	82	64
PSYCHOLOGY	7,768	407	26	84	371	6,172	457	251
SOCIAL SCIENCES	28,368	2,275	126	475	1,594	20,594	1,502	1,842
AGRICULTURAL ECONOMICS	243	2	0	3	5	175	3	55
ANTHROPOLOGY	1,524	22	14	14	34	1,262	107	71
ECONOMICS (EXCEPT AGRICULTURAL)	3,515	209	6	90	91	2,215	280	624
GEOGRAPHY	612	21	0	8	5	526	4	48
HISTORY AND PHILOSOPHY OF SCIENCE	24	1	0	0	0	22	0	1
LINGUISTICS	497	9	1	13	22	367	2	83
POLITICAL SCIENCE	10,612	1,121	51	233	1,039	6,964	712	492
SOCIOLOGY	1,809	127	10	30	44	1,334	39	215
SOCIOLOGY/ANTHROPOLOGY	418	56	4	4	22	296	17	19
SOCIAL SCIENCES, N.E.C.	9,114	697	40	80	292	7,433	338	234

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-26. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1983

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	35,134	2,163	117	1,217	1,221	24,754	3,768	1,894
ENGINEERING	5,067	154	15	464	123	3,251	470	590
AEROSPACE	17	1	0	0	3	12	0	1
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	40	0	0	0	0	13	27	0
CHEMICAL	122	5	0	11	3	99	1	13
CIVIL	615	22	2	44	25	322	92	106
ELECTRICAL	1,319	40	6	207	33	780	173	80
ENGINEERING SCIENCE	275	8	0	6	2	244	8	7
INDUSTRIAL	693	35	2	21	13	554	34	36
MECHANICAL	670	15	1	50	14	441	75	74
METALLURGICAL/MATERIALS	91	4	0	1	1	69	5	11
MINING	2	0	0	0	0	2	0	0
NUCLEAR	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	1,211	24	4	122	29	715	55	262
PHYSICAL SCIENCES	1,026	44	2	54	9	698	93	102
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	726	36	1	52	7	473	86	81
PHYSICS	164	9	1	4	1	129	3	17
PHYSICAL SCIENCES, N.E.C.	136	21	0	0	1	96	4	4
ENVIRONMENTAL SCIENCES	719	7	2	22	16	577	67	28
ATMOSPHERIC SCIENCES	5	0	0	0	0	5	0	0
GEOSCIENCES	340	4	1	7	8	259	49	12
OCEANOGRAPHY	91	0	0	2	2	85	0	2
ENVIRONMENTAL SCIENCES, N.E.C.	283	3	1	13	6	228	18	14
MATHEMATICAL/COMPUTER SCIENCES	5,813	197	13	264	99	4,029	686	525
COMPUTER SCIENCE	3,901	104	5	178	44	2,648	556	344
MATHEMATICS AND APPLIED MATHEMATICS	1,802	90	8	79	32	1,300	114	179
STATISTICS	110	3	0	7	1	81	16	2
LIFE SCIENCES	7,584	487	39	158	235	5,801	590	274
AGRICULTURAL SCIENCES	336	4	5	7	4	249	44	23
BIOLOGICAL SCIENCES	2,612	151	14	83	69	1,946	244	105
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	14	0	0	0	3	10	0	1
BIOLOGY	2,046	119	11	61	47	1,550	181	77
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	15	0	0	0	0	15	0	0
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	36	1	0	0	2	32	1	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	4	1	0	0	0	3	0	0
MICROBIOLOGY	101	0	1	8	5	35	37	15
NUTRITION	179	11	1	6	5	144	4	8
PATHOLOGY	38	0	0	0	0	18	20	0
PHARMACOLOGY	4	0	0	0	0	3	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0
ZOOLOGY	13	0	0	0	0	13	0	0
BIOSCIENCES, N.E.C.	162	19	1	7	7	123	1	4
HEALTH SCIENCES	4,636	332	20	68	162	3,606	302	146
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	10	0	0	0	0	10	0	0
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0
NURSING	1,534	86	5	26	85	1,240	62	30
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	14	0	0	0	0	14	0	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	152	13	0	1	6	120	7	5
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	1,096	93	9	15	20	809	13	17
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	256	42	1	9	3	184	9	9
HEALTH RELATED, N.E.C.	1,574	98	5	17	49	1,229	91	85
PSYCHOLOGY	6,602	364	18	80	313	5,175	563	89
SOCIAL SCIENCES	8,323	888	28	173	436	5,223	1,299	284
AGRICULTURAL ECONOMICS	5	1	0	0	0	0	0	4
ANTHROPOLOGY	171	0	1	2	7	111	45	5
ECONOMICS (EXCEPT AGRICULTURAL)	791	57	4	23	52	419	175	61
GEOGRAPHY	246	8	0	6	5	200	20	7
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	150	1	0	2	25	79	37	6
POLITICAL SCIENCE	4,182	513	9	83	227	2,690	551	109
SOCIOLOGY	327	40	3	13	23	184	49	15
SOCIOLOGY/ANTHROPOLOGY	93	15	0	0	3	75	0	0
SOCIAL SCIENCES, N.E.C.	2,358	253	11	44	84	1,465	422	79

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-37. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD, TYPE OF CONTROL, SEX, AND LEVEL OF DEPARTMENT: 1983

FIELD	TOTAL	TYPE OF CONTROL		SEX		LEVEL OF DEPARTMENT	
		PUBLIC	PRIVATE	MEN	WOMEN	DOCTORATE	MASTER'S
TOTAL, ALL FIELDS	3,570	1,919	1,651	2,005	1,565	1,029	2,541
ENGINEERING	311	198	113	274	37	53	258
AEROSPACE	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0
CHEMICAL	47	15	32	33	14	0	47
CIVIL	94	49	45	87	7	17	77
ELECTRICAL	0	0	0	0	0	0	0
ENGINEERING SCIENCE	23	23	0	18	5	0	23
INDUSTRIAL	47	11	36	45	2	36	11
MECHANICAL	0	0	0	0	0	0	0
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	100	100	0	91	9	0	100
PHYSICAL SCIENCES	319	145	174	197	122	130	189
ASTRONOMY	0	0	0	0	0	0	0
CHEMISTRY	250	112	138	145	105	109	141
PHYSICS	57	21	36	47	10	21	36
PHYSICAL SCIENCES, N.E.C.	12	12	0	5	7	0	12
ENVIRONMENTAL SCIENCES	32	24	8	16	16	0	32
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0
GEOSCIENCES	16	8	8	6	10	0	16
OCEANOGRAPHY	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	16	16	0	10	6	0	16
MATHEMATICAL/COMPUTER SCIENCES	506	395	111	324	182	15	491
COMPUTER SCIENCE	271	235	36	185	86	0	271
MATHEMATICS AND APPLIED MATHEMATICS	235	160	75	139	96	15	220
STATISTICS	0	0	0	0	0	0	0
LIFE SCIENCES	864	375	491	424	442	260	606
AGRICULTURAL SCIENCES	82	45	37	68	14	0	82
BIOLOGICAL SCIENCES	607	271	336	324	283	260	347
ANATOMY	8	0	8	5	3	8	0
BIOCHEMISTRY	18	0	18	11	7	18	0
BIOLOGY	323	215	108	173	150	76	247
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0
BOTANY	44	0	44	9	35	0	44
CELL BIOLOGY	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0
GENETICS	27	0	27	12	15	27	0
MICROBIOLOGY	26	0	26	8	18	26	0
NUTRITION	34	34	0	19	15	0	34
PATHOLOGY	0	0	0	0	0	0	0
PHARMACOLOGY	36	0	36	21	15	36	0
PHYSIOLOGY	19	0	19	14	5	19	0
ZOOLOGY	40	0	40	30	10	40	0
BIOSCIENCES, N.E.C.	32	22	10	22	10	10	22
HEALTH SCIENCES	177	59	118	32	145	0	177
ANESTHESIOLOGY	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0
NURSING	68	0	68	1	67	0	68
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	13	13	0	9	4	0	13
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	11	0	11	7	4	0	11
PSYCHIATRY	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	99	44	13	3	54	0	99
SURGERY	0	0	0	0	0	0	0
VETERINARY SCIENCES	26	0	26	12	14	0	26
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	0	0	0	0	0	0	0
PSYCHOLOGY	384	308	76	177	207	70	314
SOCIAL SCIENCES	1,152	474	678	593	559	501	651
AGRICULTURAL ECONOMICS	53	53	0	44	9	0	53
ANTHROPOLOGY	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	106	30	76	76	30	34	72
GEOGRAPHY	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0
LINGUISTICS	43	0	43	10	33	43	0
POLITICAL SCIENCE	297	138	159	162	135	84	213
SOCIOLOGY	214	64	150	105	109	150	64
SOCIOLOGY/ANTHROPOLOGY	113	0	113	41	72	80	33
SOCIAL SCIENCES, N.E.C.	326	189	137	155	171	110	216

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-28. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD, TYPE OF CONTROL, AND ENROLLMENT STATUS: 1983

FIELD	PUBLIC INSTITUTIONS			PRIVATE INSTITUTIONS		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL FIELDS	1,919	1,041	878	1,651	1,288	363
ENGINEERING	198	96	102	113	99	14
AEROSPACE	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0
CIVIL	15	11	4	32	23	9
ELECTRICAL	49	39	10	45	45	0
ENGINEERING SCIENCE	0	0	0	0	0	0
INDUSTRIAL	22	10	13	0	0	0
MECHANICAL	11	3	8	36	31	5
METALLURGICAL/MATERIALS	0	0	0	0	0	0
MINING	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0
ENGINEERING, N.E.C.	100	33	67	0	0	0
PHYSICAL SCIENCES	145	114	31	174	157	17
ASTRONOMY	0	0	0	0	0	0
CHEMISTRY	112	97	15	138	125	13
PHYSICS	21	17	4	36	32	4
PHYSICAL SCIENCES, N.E.C.	12	0	12	0	0	0
ENVIRONMENTAL SCIENCES	24	19	5	8	8	0
ATMOSPHERIC SCIENCES	0	0	0	0	0	0
GEOSCIENCES	8	3	5	8	8	0
OCEANOGRAPHY	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	16	16	0	0	0	0
MATHEMATICAL/COMPUTER SCIENCES	395	232	163	111	90	21
COMPUTER SCIENCE	235	164	71	36	21	15
MATHEMATICS AND APPLIED MATHEMATICS	160	68	92	75	69	6
STATISTICS	0	0	0	0	0	0
LIFE SCIENCES	375	241	134	491	440	51
AGRICULTURAL SCIENCES	45	2	43	37	37	0
BIOLOGICAL SCIENCES	271	209	62	336	309	27
ANATOMY	0	0	0	8	8	0
BIOCHEMISTRY	0	0	0	18	18	0
BIOLOGY	215	161	54	108	99	9
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0
BIOPHYSICS	0	0	0	44	32	12
BOTANY	0	0	0	0	0	0
CELL BIOLOGY	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	27	25	2
GENETICS	0	0	0	26	26	0
MICROBIOLOGY	34	27	7	0	0	0
NUTRITION	0	0	0	0	0	0
PATHOLOGY	0	0	0	36	34	2
PHARMACOLOGY	0	0	0	19	19	0
PHYSIOLOGY	0	0	0	40	38	2
ZOOLOGY	22	21	1	10	10	0
BIOSCIENCES, N.E.C.	59	30	29	118	94	24
HEALTH SCIENCES	0	0	0	0	0	0
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0
NEUROLOGY	0	0	0	68	47	21
NURSING	0	0	0	0	0	0
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	13	13	0	0	0	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	11	10	1
PSYCHIATRY	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	46	17	29	13	11	2
SURGERY	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	26	26	0
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	0	0	0	0	0	0
PSYCHOLOGY	308	95	213	76	37	39
SOCIAL SCIENCES	474	244	230	678	457	221
AGRICULTURAL ECONOMICS	53	50	3	0	0	0
ANTHROPOLOGY	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	30	22	8	76	38	38
GEOGRAPHY	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	0	0	0	43	38	5
POLITICAL SCIENCE	138	45	93	199	98	61
SOCIOLOGY	64	45	19	190	91	99
SOCIOLOGY/ANTHROPOLOGY	0	0	0	113	81	32
SOCIAL SCIENCES, N.E.C.	189	82	107	137	111	26

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-29. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1983

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	3,570	1,706	15	77	19	602	66	1,085
ENGINEERING	311	69	0	9	0	40	0	193
AEROSPACE	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0
CIVIL	47	11	0	0	0	8	0	28
ELECTRICAL	94	27	0	4	0	5	0	58
ENGINEERING SCIENCE	0	0	0	0	0	0	0	0
INDUSTRIAL	23	9	0	0	0	8	0	6
MECHANICAL	47	7	0	2	0	0	0	38
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	100	15	0	3	0	19	0	63
PHYSICAL SCIENCES	319	182	2	9	1	26	3	96
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	290	150	2	5	1	18	3	71
PHYSICS	17	22	0	4	0	6	0	25
PHYSICAL SCIENCES, N.E.C.	12	10	0	0	0	2	0	0
ENVIRONMENTAL SCIENCES	32	5	0	0	0	17	2	8
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0
GEOSCIENCES	16	5	0	0	0	5	0	6
OCEANOGRAPHY	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	16	0	0	0	0	12	2	2
MATHEMATICAL/COMPUTER SCIENCES	506	175	3	40	3	70	25	190
COMPUTER SCIENCE	271	92	1	36	1	28	21	92
MATHEMATICS AND APPLIED MATHEMATICS	235	83	2	4	2	42	4	98
STATISTICS	0	0	0	0	0	0	0	0
LIFE SCIENCES	866	438	6	11	5	157	20	229
AGRICULTURAL SCIENCES	82	6	0	1	0	35	5	35
BIOLOGICAL SCIENCES	607	371	3	8	4	48	8	166
ANATOMY	8	4	0	0	0	4	0	0
BIOCHEMISTRY	18	6	0	0	1	0	1	10
BIOLOGY	323	230	1	2	2	38	1	49
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	44	15	0	0	0	0	0	29
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	27	13	0	0	0	0	0	13
MICROBIOLOGY	26	18	1	1	0	0	0	8
NUTRITION	34	17	0	5	1	0	0	10
PATHOLOGY	0	0	0	0	0	0	0	0
PHARMACOLOGY	36	15	0	0	0	2	0	19
PHYSIOLOGY	19	10	0	0	0	3	0	6
ZOOLOGY	40	18	0	0	0	0	2	20
BIOSCIENCES, N.E.C.	31	25	0	0	0	1	4	2
HEALTH SCIENCES	177	61	4	2	1	74	7	28
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0
NURSING	68	38	0	0	0	26	4	0
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	13	0	1	0	0	6	0	6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	11	0	0	1	1	1	0	8
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	59	14	3	1	0	40	0	1
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	26	9	0	0	0	1	3	13
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	0	0	0	0	0	0	0	0
PSYCHOLOGY	384	172	0	1	2	193	10	6
SOCIAL SCIENCES	1,152	665	4	7	8	99	6	363
AGRICULTURAL ECONOMICS	53	10	0	0	1	1	0	41
ANTHROPOLOGY	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	106	44	0	0	0	0	2	60
GEOGRAPHY	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	43	36	0	0	0	4	0	3
POLITICAL SCIENCE	297	190	1	3	1	33	2	67
SOCIOLOGY	214	94	1	1	1	13	0	104
SOCIOLOGY/ANTHROPOLOGY	113	72	0	1	1	7	0	33
SOCIAL SCIENCES, N.E.C.	326	219	2	3	4	41	2	55

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-30. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1983

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	2,329	831	1,498	1,479	850	1,355	974	1,041	1,288
ENGINEERING	195	86	109	63	132	172	23	96	99
AEROSPACE	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0	0
CIVIL	34	20	14	12	22	26	8	11	23
ELECTRICAL	84	24	60	27	57	77	7	39	45
ENGINEERING SCIENCE	0	0	0	0	0	0	0	0	0
INDUSTRIAL	10	8	2	7	3	9	1	10	0
MECHANICAL	34	16	18	4	30	32	2	3	31
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	33	18	15	13	20	28	5	33	0
PHYSICAL SCIENCES	271	89	182	179	92	170	101	114	157
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	222	71	151	155	67	131	91	97	125
PHYSICS	49	18	31	24	25	39	10	17	32
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	27	9	18	19	8	15	12	19	8
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0
GEOSCIENCES	11	3	8	5	6	5	6	3	8
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	16	6	10	14	2	10	6	16	0
MATHEMATICAL/COMPUTER SCIENCES	322	129	193	164	158	216	106	232	90
COMPUTER SCIENCE	185	80	105	111	74	128	57	164	21
MATHEMATICS AND APPLIED MATHEMATICS	137	49	88	53	84	88	49	68	69
STATISTICS	0	0	0	0	0	0	0	0	0
LIFE SCIENCES	681	212	469	470	211	349	332	241	440
AGRICULTURAL SCIENCES	39	7	32	6	33	35	4	2	37
BIOLOGICAL SCIENCES	518	155	363	367	151	284	234	209	309
ANATOMY	8	2	6	8	0	5	3	0	8
BIOCHEMISTRY	18	6	12	8	10	11	7	0	18
BIOLOGY	260	85	175	215	45	146	114	161	99
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	32	14	18	10	22	4	28	0	32
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	25	9	16	14	11	10	15	0	25
MICROBIOLOGY	26	4	22	18	8	8	18	0	26
NUTRITION	27	7	20	18	9	17	10	27	0
PATHOLOGY	0	0	0	0	0	0	0	0	0
PHARMACOLOGY	34	6	28	16	18	19	15	0	34
PHYSIOLOGY	19	11	8	13	6	14	5	0	19
ZOOLOGY	38	6	32	18	20	28	10	0	38
BIOSCIENCES, N.E.C.	31	5	26	29	2	22	9	21	10
HEALTH SCIENCES	124	50	74	97	27	30	94	30	94
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0
NURSING	47	9	38	47	0	1	46	0	47
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	13	5	8	7	6	9	4	13	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	10	10	0	3	7	7	3	0	10
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	54	16	12	27	1	1	27	17	11
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	26	10	16	13	13	12	14	0	26
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	0	0	0	0	0	0	0	0	0
PSYCHOLOGY	132	48	84	127	5	60	72	95	37
SOCIAL SCIENCES	701	258	443	457	244	373	328	244	457
AGRICULTURAL ECONOMICS	50	27	23	11	39	42	8	50	0
ANTHROPOLOGY	0	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	60	21	39	32	28	43	17	22	38
GEOGRAPHY	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	38	12	26	35	3	10	28	0	38
POLITICAL SCIENCE	143	58	85	94	49	86	57	45	98
SOCIOLOGY	136	33	103	69	67	84	52	45	91
SOCIOLOGY/ANTHROPOLOGY	81	21	60	53	28	26	55	0	81
SOCIAL SCIENCES, N.E.C.	193	86	107	163	30	82	111	82	111

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-31. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1983

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/ COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	2,329	195	271	27	322	681	132	701
FEDERAL, TOTAL	960	36	103	3	25	307	2	84
DEPT OF DEFENSE	33	12	12	0	5	4	0	0
DEPT OF HHS, TOTAL	220	0	36	0	0	172	0	12
NIH	137	0	36	0	0	151	0	0
OTHER HHS	33	0	0	0	0	21	0	12
NSF	50	2	13	0	6	20	1	8
ALL OTHER FEDERAL	257	22	42	3	14	111	1	64
INSTITUTIONAL SUPPORT	673	83	119	5	78	135	35	218
OTHER OUTSIDE SUPPORT, TOTAL	176	17	12	8	1	69	4	65
ALL OTHER U.S.	136	16	10	8	0	41	4	57
FOREIGN	40	1	2	0	1	28	0	8
SELF-SUPPORT	920	99	37	11	218	170	91	334
MEN:								
TOTAL, ALL SOURCES	1,355	172	170	15	216	349	60	373
FEDERAL, TOTAL	283	31	60	2	17	136	0	37
DEPT OF DEFENSE	25	10	10	0	2	3	0	0
DEPT OF HHS, TOTAL	84	0	14	0	0	69	0	1
NIH	83	0	14	0	0	69	0	0
OTHER HHS	1	0	0	0	0	0	0	1
NSF	30	2	9	0	5	8	0	6
ALL OTHER FEDERAL	144	19	27	2	10	56	0	30
INSTITUTIONAL SUPPORT	393	75	77	3	51	74	13	100
OTHER OUTSIDE SUPPORT, TOTAL	102	15	8	4	1	57	1	16
ALL OTHER U.S.	68	14	7	4	0	33	1	9
FOREIGN	34	1	1	0	1	24	0	7
SELF-SUPPORT	577	51	25	6	147	82	46	220
WOMEN:								
TOTAL, ALL SOURCES	974	23	101	12	106	332	72	328
FEDERAL, TOTAL	277	5	43	1	8	171	2	47
DEPT OF DEFENSE	8	2	2	0	3	1	0	0
DEPT OF HHS, TOTAL	136	0	22	0	0	103	0	11
NIH	104	0	22	0	0	82	0	0
OTHER HHS	32	0	0	0	0	21	0	11
NSF	20	0	4	0	1	12	1	2
ALL OTHER FEDERAL	113	3	15	1	4	55	1	34
INSTITUTIONAL SUPPORT	280	8	42	2	27	61	22	118
OTHER OUTSIDE SUPPORT, TOTAL	74	2	4	4	0	12	3	49
ALL OTHER U.S.	68	2	3	4	0	8	3	48
FOREIGN	6	0	1	0	0	4	0	1
SELF-SUPPORT	343	8	12	5	71	88	45	114

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-32. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD AND TYPE OF MAJOR SUPPORT: 1983

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	2,329	272	220	368	357	1,112
ENGINEERING	195	16	1	47	52	79
AEROSPACE	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0
CIVIL	34	0	0	6	8	20
ELECTRICAL	84	11	0	16	28	29
ENGINEERING SCIENCE	0	0	0	0	0	0
INDUSTRIAL	10	0	0	0	8	2
MECHANICAL	34	1	0	15	2	16
METALLURGICAL/MATERIALS	0	0	0	0	0	0
MINING	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0
ENGINEERING, N.E.C.	33	4	1	10	6	12
PHYSICAL SCIENCES	271	28	26	63	105	49
ASTRONOMY	0	0	0	0	0	0
CHEMISTRY	222	22	24	53	88	35
PHYSICS	49	6	2	10	17	14
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	27	0	0	11	5	11
ATMOSPHERIC SCIENCES	0	0	0	0	0	0
GEOSCIENCES	11	0	0	6	2	3
OCEANOGRAPHY	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	16	0	0	5	3	8
MATHEMATICAL/COMPUTER SCIENCES	322	12	6	21	43	240
COMPUTER SCIENCE	185	8	0	11	5	161
MATHEMATICS AND APPLIED MATHEMATICS	137	4	6	10	38	79
STATISTICS	0	0	0	0	0	0
LIFE SCIENCES	681	59	145	130	111	236
AGRICULTURAL SCIENCES	39	11	2	18	3	5
BIOLOGICAL SCIENCES	518	37	120	105	96	160
ANATOMY	8	0	7	0	1	0
BIOCHEMISTRY	15	1	9	1	5	2
BIOLOGY	260	5	58	62	49	86
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0
BOTANY	32	0	0	3	15	14
CELL BIOLOGY	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0
GENETICS	25	5	1	5	2	12
MICROBIOLOGY	26	0	16	1	5	4
NUTRITION	27	0	0	20	0	7
PATHOLOGY	0	0	0	0	0	0
PHARMACOLOGY	34	0	8	0	5	21
PHYSIOLOGY	19	3	11	0	1	4
ZOOLOGY	38	20	5	0	13	0
BIOSCIENCES, N.E.C.	31	3	5	13	0	10
HEALTH SCIENCES	124	11	23	7	12	71
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0
NURSING	47	0	14	5	1	27
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	13	1	0	0	8	4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	10	0	0	0	0	10
PSYCHIATRY	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	28	5	5	2	3	13
SURGERY	0	0	0	0	0	0
VETERINARY SCIENCES	26	5	4	0	0	17
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	0	0	0	0	0	0
PSYCHOLOGY	132	11	1	6	21	93
SOCIAL SCIENCES	701	146	41	90	20	404
AGRICULTURAL ECONOMICS	50	8	0	23	0	19
ANTHROPOLOGY	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	60	10	1	7	1	41
GEOGRAPHY	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	38	13	0	14	8	3
POLITICAL SCIENCE	143	38	8	13	0	84
SOCIOLOGY	136	14	4	21	10	87
SOCIOLOGY/ANTHROPOLOGY	81	27	8	7	0	39
SOCIAL SCIENCES, N.E.C.	193	36	20	5	1	131

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-33. — SCIENCE/ENGINEERING POSTDOCTORATES IN ALL GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1983

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	20,829	15,073	2,480	2,606	9,987	5,756	7,554
ENGINEERING	1,113	767	36	26	705	346	644
AEROSPACE	32	29	0	0	28	4	24
AGRICULTURAL	4	1	0	0	1	3	1
BIOMEDICAL	28	26	5	11	10	2	8
CHEMICAL	198	101	7	2	52	97	143
CIVIL	131	91	2	0	89	40	79
ELECTRICAL	184	104	4	0	100	80	108
ENGINEERING SCIENCE	71	64	4	1	59	7	32
INDUSTRIAL	14	7	0	0	7	7	8
MECHANICAL	182	157	10	2	145	25	113
METALLURGICAL/MATERIALS	204	149	1	5	143	55	151
MINING	19	1	1	0	0	18	1
NUCLEAR	15	13	0	0	13	2	9
PETROLEUM	1	1	0	0	1	0	0
ENGINEERING, N.E.C.	30	24	2	5	17	6	17
PHYSICAL SCIENCES	4,458	3,767	241	25	3,481	691	2,394
ASTRONOMY	111	91	7	0	84	20	26
CHEMISTRY	2,989	2,504	214	22	2,268	485	1,676
PHYSICS	1,354	1,169	40	3	1,126	185	692
PHYSICAL SCIENCES, N.E.C.	4	3	0	0	3	1	0
ENVIRONMENTAL SCIENCES	419	318	10	4	304	101	159
ATMOSPHERIC SCIENCES	41	39	0	0	39	2	21
GEOSCIENCES	240	169	2	0	167	71	101
OCEANOGRAPHY	121	99	8	3	88	22	31
ENVIRONMENTAL SCIENCES, N.E.C.	17	11	0	1	10	6	6
MATHEMATICAL/COMPUTER SCIENCES	252	130	28	10	92	122	135
COMPUTER SCIENCE	82	47	1	7	39	35	45
MATHEMATICS AND APPLIED MATHEMATICS	137	56	22	1	33	81	76
STATISTICS	33	27	5	2	20	6	14
LIFE SCIENCES	13,789	9,578	2,030	2,347	5,201	4,211	3,994
AGRICULTURAL SCIENCES	298	169	7	5	157	129	81
BIOLOGICAL SCIENCES	8,417	6,232	1,305	989	4,038	2,085	2,585
ANATOMY	297	227	75	33	117	70	78
BIOCHEMISTRY	1,786	1,410	230	106	1,074	376	656
BIOLOGY	1,009	773	210	60	503	236	274
BIOMETRY/EPIDEMIOLOGY	54	34	4	22	8	20	20
BIOPHYSICS	184	168	46	20	102	16	61
BOTANY	369	259	22	0	237	110	100
CELL BIOLOGY	620	484	120	53	311	136	159
ECOLOGY	39	32	0	0	32	7	4
ENTOMOLOGY/PARASITOLOGY	112	75	3	1	71	37	30
GENETICS	344	246	47	53	146	98	100
MICROBIOLOGY	1,017	746	116	203	427	271	289
NUTRITION	151	81	22	15	44	70	50
PATHOLOGY	584	384	72	157	155	200	169
PHARMACOLOGY	801	607	136	122	349	194	308
PHYSIOLOGY	773	596	149	116	331	177	225
ZOOLOGY	203	150	42	10	98	53	33
BIOSCIENCES, N.E.C.	74	60	11	18	31	14	29
HEALTH SCIENCES	5,074	3,077	718	1,353	1,006	1,997	1,328
ANESTHESIOLOGY	59	31	3	20	8	28	12
CANCER/ONCOLOGY	157	124	12	55	57	33	32
CARDIOLOGY	336	189	39	109	41	147	74
DENTISTRY	197	94	26	44	24	103	65
ENDOCRINOLOGY	173	116	16	68	32	57	59
GASTROENTEROLOGY	148	97	33	50	14	51	16
HEMATOLOGY	154	122	26	75	21	32	20
NEUROLOGY	301	211	74	62	75	90	86
NURSING	6	1	0	0	1	5	0
OBSTETRICS/GYNECOLOGY	116	53	16	12	25	63	54
OPHTHALMOLOGY	137	78	16	32	30	59	33
OTORHINOLARYNGOLOGY	23	16	7	0	9	7	12
PEDIATRICS	545	281	88	115	78	264	112
PHARMACEUTICAL SCIENCES	241	168	5	7	156	73	131
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	161	105	29	54	22	56	24
PSYCHIATRY	264	197	38	130	29	67	44
PULMONARY DISEASE	149	81	41	32	8	68	22
RADIOLOGY	187	115	4	52	59	72	59
SPEECH PATHOLOGY/AUDIOLOGY	18	15	6	3	6	3	2
SURGERY	390	169	48	42	79	221	169
VETERINARY SCIENCES	91	34	3	14	17	17	5
CLINICAL MEDICINE, N.E.C.	1,160	716	185	358	173	444	273
HEALTH RELATED, N.E.C.	101	64	3	19	42	37	24
PSYCHOLOGY	437	333	73	126	134	104	61
SOCIAL SCIENCES	361	180	42	68	70	181	117
AGRICULTURAL ECONOMICS	28	20	1	5	14	8	8
ANTHROPOLOGY	61	27	5	14	8	34	9
ECONOMICS (EXCEPT AGRICULTURAL)	20	8	2	4	2	12	11
GEOGRAPHY	7	2	1	1	0	5	7
HISTORY AND PHILOSOPHY OF SCIENCE	19	9	5	0	4	10	8
LINGUISTICS	51	6	1	0	5	45	29
POLITICAL SCIENCE	43	16	9	2	5	27	16
SOCIOLOGY	102	80	18	42	20	22	16
SOCIOLOGY/ANTHROPOLOGY	1	0	0	0	0	1	1
SOCIAL SCIENCES, N.E.C.	29	12	0	0	12	17	12

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-34. — SCIENCE/ENGINEERING POSTDOCTORATES IN PUBLIC GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1983

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	11,752	8,726	1,270	1,284	6,172	3,026	4,473
ENGINEERING	611	401	16	15	370	210	395
AEROSPACE	15	11	0	0	11	4	13
AGRICULTURAL	1	0	0	0	0	1	1
BIOMEDICAL	11	10	1	4	5	1	6
CHEMICAL	115	54	1	0	53	61	91
CIVIL	80	51	1	0	50	29	44
ELECTRICAL	112	60	4	0	56	52	75
ENGINEERING SCIENCE	16	14	0	0	14	2	5
INDUSTRIAL	10	6	0	0	6	4	6
MECHANICAL	98	86	6	1	79	12	55
METALLURGICAL/MATERIALS	113	75	0	5	70	38	76
MINING	1	1	1	0	0	0	1
NUCLEAR	14	12	0	0	12	2	5
PETROLEUM	1	1	0	0	1	0	0
ENGINEERING, N.E.C.	24	20	2	5	13	4	12
PHYSICAL SCIENCES	2,902	2,495	131	13	2,311	447	1,621
ASTRONOMY	77	62	2	0	60	15	17
CHEMISTRY	1,947	1,639	107	10	1,522	308	1,140
PHYSICS	874	751	22	3	726	123	464
PHYSICAL SCIENCES, N.E.C.	4	3	0	0	3	1	0
ENVIRONMENTAL SCIENCES	270	202	7	1	194	68	103
ATMOSPHERIC SCIENCES	40	38	0	0	38	2	20
GEOSCIENCES	139	89	0	0	89	50	58
OCEANOGRAPHY	83	70	7	0	63	13	23
ENVIRONMENTAL SCIENCES, N.E.C.	8	5	0	1	4	3	2
MATHEMATICAL/COMPUTER SCIENCES	149	61	13	8	40	88	94
COMPUTER SCIENCE	48	17	1	7	9	31	32
MATHEMATICS AND APPLIED MATHEMATICS	73	21	10	0	11	52	49
STATISTICS	28	23	2	1	20	5	13
LIFE SCIENCES	7,349	5,292	1,043	1,125	3,124	2,057	2,187
AGRICULTURAL SCIENCES	277	158	7	5	146	119	77
BIOLOGICAL SCIENCES	4,795	3,651	708	491	2,452	1,104	1,479
ANATOMY	157	123	46	16	62	34	45
BIOCHEMISTRY	1,047	862	135	64	663	185	393
BIOLOGY	495	375	94	27	254	80	126
BIOMETRY/EPIDEMIOLOGY	25	18	3	12	3	7	8
BIOPHYSICS	35	29	1	6	22	6	14
BOTANY	329	225	20	0	215	104	95
CELL BIOLOGY	192	159	34	9	116	33	58
ECOLOGY	38	32	0	0	32	6	4
ENTOMOLOGY/PARASITOLOGY	107	70	2	1	67	37	29
GENETICS	184	147	30	25	92	37	49
MICROBIOLOGY	641	477	81	121	275	164	171
NUTRITION	69	36	4	5	27	33	22
PATHOLOGY	308	193	36	65	92	115	85
PHARMACOLOGY	446	339	83	61	195	107	192
PHYSIOLOGY	445	365	93	58	214	100	128
ZOOLOGY	189	142	37	9	96	47	32
BIOSCIENCES, N.E.C.	58	49	9	13	27	9	24
HEALTH SCIENCES	2,317	1,483	328	629	526	834	615
ANESTHESIOLOGY	17	8	1	6	1	9	2
CANCER/ONCOLOGY	111	79	7	34	38	32	27
CARDIOLOGY	204	120	26	70	24	84	46
DENTISTRY	118	72	10	42	20	46	26
ENDOCRINOLOGY	104	67	12	34	21	37	40
GASTROENTEROLOGY	66	49	23	20	6	17	6
HEMATOLOGY	82	66	14	38	14	16	10
NEUROLOGY	127	91	34	29	28	36	28
NURSING	6	1	0	0	1	5	0
OBSTETRICS/GYNECOLOGY	48	24	11	6	7	24	18
OPHTHALMOLOGY	61	33	3	17	13	28	18
OTORHINOLARYNGOLOGY	7	4	1	0	3	3	4
PEDIATRICS	155	81	19	38	24	74	18
PHARMACEUTICAL SCIENCES	225	154	5	7	142	71	127
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	73	57	24	24	9	16	6
PSYCHIATRY	113	95	15	52	17	18	19
PULMONARY DISEASE	94	47	35	6	6	47	10
RADIOLOGY	64	42	1	26	15	22	23
SPEECH PATHOLOGY/AUDIOLOGY	16	13	5	2	6	3	2
SURGERY	164	64	19	17	28	100	73
VETERINARY SCIENCES	32	15	1	4	10	17	2
CLINICAL MEDICINE, N.E.C.	376	254	60	132	62	122	94
HEALTH RELATED, N.E.C.	54	47	2	14	31	7	16
PSYCHOLOGY	248	203	34	79	90	45	26
SOCIAL SCIENCES	223	112	26	43	43	111	67
AGRICULTURAL ECONOMICS	25	20	1	5	14	5	5
ANTHROPOLOGY	46	18	4	11	3	28	8
ECONOMICS (EXCEPT AGRICULTURAL)	8	4	1	2	1	4	3
GEOGRAPHY	6	1	1	0	0	5	6
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	1	0	0	0	0
LINGUISTICS	25	4	0	0	4	21	12
POLITICAL SCIENCE	27	6	6	0	0	21	12
SOCIOLOGY	62	52	12	25	15	10	9
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	23	6	0	0	6	17	12

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-35. — SCIENCE/ENGINEERING POSTDOCTORATES IN PRIVATE GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1983

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	9,077	6,347	1,210	1,322	3,815	2,730	3,081
ENGINEERING	502	366	20	11	335	136	299
AEROSPACE	17	17	0	0	17	0	11
AGRICULTURAL	3	1	0	0	1	2	0
BIOMEDICAL	17	16	4	7	5	1	2
CHEMICAL	83	47	6	2	39	36	52
CIVIL	51	40	1	0	39	11	33
ELECTRICAL	72	44	0	0	44	28	33
ENGINEERING SCIENCE	55	50	4	1	45	5	27
INDUSTRIAL	4	1	0	0	1	3	2
MECHANICAL	84	71	4	1	66	13	58
METALLURGICAL/MATERIALS	91	74	1	0	73	17	75
MINING	18	0	0	0	0	18	0
NUCLEAR	1	1	0	0	1	0	1
PETROLEUM	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	6	4	0	0	4	2	5
PHYSICAL SCIENCES	1,356	1,312	130	12	1,170	244	773
ASTRONOMY	34	29	5	0	24	5	9
CHEMISTRY	1,042	865	107	12	746	177	536
PHYSICS	480	418	18	0	400	62	228
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	149	116	3	3	110	33	54
ATMOSPHERIC SCIENCES	1	1	0	0	1	0	1
GEOSCIENCES	101	80	2	0	78	21	43
OCEANOGRAPHY	38	29	1	3	25	9	8
ENVIRONMENTAL SCIENCES, N.E.C.	9	6	0	0	6	3	4
MATHEMATICAL/COMPUTER SCIENCES	103	69	15	2	52	34	41
COMPUTER SCIENCE	34	30	0	0	30	4	13
MATHEMATICS AND APPLIED MATHEMATICS	64	35	12	1	22	29	27
STATISTICS	5	4	3	1	0	1	1
LIFE SCIENCES	6,440	4,286	987	1,222	2,077	2,154	1,827
AGRICULTURAL SCIENCES	21	11	0	0	11	10	4
BIOLOGICAL SCIENCES	3,662	2,681	597	498	1,586	981	1,110
ANATOMY	140	104	29	18	57	36	33
BIOCHEMISTRY	739	548	95	42	411	191	263
BIOLOGY	554	398	116	33	249	156	148
BIOMETRY/EPIDEMIOLOGY	29	16	1	10	5	13	12
BIOPHYSICS	149	139	45	14	80	10	47
BOTANY	30	24	2	0	22	6	5
CELL BIOLOGY	428	325	86	44	195	103	101
ECOLOGY	1	0	0	0	0	1	0
ENTOMOLOGY/PARASITOLOGY	5	5	1	0	4	0	1
GENETICS	160	99	17	28	54	61	51
MICROBIOLOGY	376	269	35	82	152	107	118
NUTRITION	82	45	18	10	17	37	28
PATHOLOGY	276	191	36	92	63	85	84
PHARMACOLOGY	355	268	53	61	154	87	116
PHYSIOLOGY	308	231	56	58	117	77	97
ZOOLOGY	14	8	5	1	2	6	1
BIOSCIENCES, N.E.C.	16	11	2	5	4	5	5
HEALTH SCIENCES	2,757	1,594	390	724	480	1,163	713
ANESTHESIOLOGY	42	23	2	14	7	19	10
CANCER/ONCOLOGY	46	45	5	21	19	1	5
CARDIOLOGY	132	69	13	39	17	63	28
DENTISTRY	79	22	16	2	4	57	39
ENDOCRINOLOGY	69	49	4	34	11	20	19
GASTROENTEROLOGY	82	48	10	30	8	34	10
HEMATOLOGY	72	56	12	37	7	16	10
NEUROLOGY	173	120	40	33	47	54	58
NURSING	0	0	0	0	0	0	0
OBSTETRICS/GYNECOLOGY	68	29	5	6	18	39	36
OPHTHALMOLOGY	76	45	13	15	17	31	15
OTORHINOLARYNGOLOGY	16	12	6	0	6	4	8
PEDIATRICS	390	200	69	77	54	190	94
PHARMACEUTICAL SCIENCES	16	14	0	0	14	2	4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	88	48	5	30	13	40	18
PSYCHIATRY	151	102	23	67	12	49	25
PULMONARY DISEASE	55	34	6	26	2	21	12
RADIOLOGY	123	73	3	26	44	50	36
SPEECH PATHOLOGY/AUDIOLOGY	2	2	1	1	0	0	0
SURGERY	226	105	29	25	51	121	96
VETERINARY SCIENCES	19	19	2	10	7	0	3
CLINICAL MEDICINE, N.E.C.	784	462	125	226	111	322	179
HEALTH RELATED, N.E.C.	47	17	1	5	11	30	8
PSYCHOLOGY	189	130	39	47	44	59	35
SOCIAL SCIENCES	138	68	16	25	27	70	50
AGRICULTURAL ECONOMICS	3	0	0	0	0	3	3
ANTHROPOLOGY	15	9	1	3	5	6	1
ECONOMICS (EXCEPT AGRICULTURAL)	12	4	1	2	1	8	8
GEOGRAPHY	1	1	0	1	0	0	1
HISTORY AND PHILOSOPHY OF SCIENCE	18	8	4	0	4	10	8
LINGUISTICS	26	2	1	0	1	24	17
POLITICAL SCIENCE	16	10	3	2	5	6	4
SOCIOLOGY	40	28	6	17	5	12	7
SOCIOLOGY/ANTHROPOLOGY	1	0	0	0	0	1	1
SOCIAL SCIENCES, N.E.C.	6	6	0	0	6	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-36. — MALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1983

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	16,017	11,600	1,814	1,820	7,966	4,417	6,396
ENGINEERING	1,025	705	35	22	648	320	657
AEROSPACE	32	28	0	0	28	4	24
AGRICULTURAL	4	1	0	0	1	3	1
BIOMEDICAL	24	22	5	9	8	2	7
CHEMICAL	172	88	7	1	80	84	126
CIVIL	125	86	2	0	84	39	79
ELECTRICAL	172	95	3	0	92	77	102
ENGINEERING SCIENCE	68	61	4	1	56	7	32
INDUSTRIAL	12	5	0	0	5	7	7
MECHANICAL	176	152	10	2	140	24	112
METALLURGICAL/MATERIALS	180	133	1	5	127	47	142
MINING	19	1	1	0	0	18	1
NUCLEAR	14	12	0	0	12	2	9
PETROLEUM	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	27	21	2	4	15	6	15
PHYSICAL SCIENCES	3,921	3,334	220	18	3,096	587	2,150
ASTRONOMY	93	78	6	0	72	15	27
CHEMISTRY	2,559	2,157	177	17	1,963	402	1,445
PHYSICS	1,266	1,096	37	1	1,058	170	643
PHYSICAL SCIENCES, N.E.C.	3	3	0	0	3	0	0
ENVIRONMENTAL SCIENCES	357	270	8	3	259	87	144
ATMOSPHERIC SCIENCES	37	35	0	0	35	2	19
GEOSCIENCES	212	151	2	0	149	61	95
OCEANOGRAPHY	92	74	6	3	65	18	26
ENVIRONMENTAL SCIENCES, N.E.C.	16	10	0	0	10	6	6
MATHEMATICAL/COMPUTER SCIENCES	226	116	25	10	81	110	122
COMPUTER SCIENCE	72	40	1	7	32	32	38
MATHEMATICS AND APPLIED MATHEMATICS	126	54	22	1	31	72	70
STATISTICS	28	22	2	2	18	6	14
LIFE SCIENCES	9,986	6,865	1,455	1,651	3,759	3,121	3,187
AGRICULTURAL SCIENCES	244	142	7	4	131	102	72
BIOLOGICAL SCIENCES	6,001	4,531	920	701	2,910	1,470	2,042
ANATOMY	210	159	50	28	81	51	61
BIOCHEMISTRY	1,281	1,008	163	72	773	273	525
BIOLOGY	682	522	146	42	334	160	205
BIOMETRY/EPIDEMIOLOGY	31	23	3	15	5	8	11
BIOPHYSICS	135	120	35	15	70	15	53
BOTANY	272	187	15	0	172	85	84
CELL BIOLOGY	436	338	71	41	226	98	123
ECOLOGY	37	31	0	0	31	6	4
ENTOMOLOGY/PARASITOLOGY	93	66	0	1	65	27	26
GENETICS	219	150	30	29	91	69	76
MICROBIOLOGY	710	531	81	137	313	179	217
NUTRITION	105	55	19	9	27	50	37
PATHOLOGY	398	265	51	105	109	133	131
PHARMACOLOGY	602	460	101	102	257	142	249
PHYSIOLOGY	590	462	117	86	259	128	192
ZOOLOGY	145	111	32	8	71	34	23
BIOSCIENCES, N.E.C.	55	43	6	11	26	12	25
HEALTH SCIENCES	3,741	2,192	528	946	718	1,549	1,073
ANESTHESIOLOGY	44	23	3	12	8	21	12
CANCER/ONCOLOGY	106	81	6	42	33	25	30
CARDIOLOGY	287	161	35	92	34	126	67
DENTISTRY	156	72	19	38	15	84	50
ENDOCRINOLOGY	122	76	10	43	23	46	53
GASTROENTEROLOGY	135	86	28	47	11	49	15
HEMATOLOGY	104	81	21	49	11	23	13
NEUROLOGY	216	148	52	46	50	68	68
NURSING	1	1	0	0	1	0	0
OBSTETRICS/GYNECOLOGY	81	32	8	6	18	49	47
OPHTHALMOLOGY	92	47	11	15	21	45	23
OTORHINOLARYNGOLOGY	21	14	7	0	7	7	12
PEDIATRICS	349	170	54	66	50	179	78
PHARMACEUTICAL SCIENCES	187	133	3	4	126	54	110
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	112	64	18	32	14	48	16
PSYCHIATRY	163	113	22	69	22	50	34
PULMONARY DISEASE	113	64	35	21	8	49	17
RADIOLOGY	152	94	4	41	49	58	47
SPEECH PATHOLOGY/AUDIOLOGY	8	7	2	2	3	1	2
SURGERY	343	140	43	37	60	203	161
VETERINARY SCIENCES	32	20	2	9	9	12	3
CLINICAL MEDICINE, N.E.C.	857	525	144	264	117	332	199
HEALTH RELATED, N.E.C.	60	40	1	11	28	20	16
PSYCHOLOGY	258	193	42	73	78	65	41
SOCIAL SCIENCES	244	117	29	43	45	127	93
AGRICULTURAL ECONOMICS	22	17	1	5	11	5	8
ANTHROPOLOGY	33	14	4	7	3	19	9
ECONOMICS (EXCEPT AGRICULTURAL)	16	5	0	3	2	11	10
GEOGRAPHY	7	2	1	1	0	5	7
HISTORY AND PHILOSOPHY OF SCIENCE	13	6	5	0	1	7	6
LINGUISTICS	29	1	0	0	1	28	20
POLITICAL SCIENCE	37	14	7	2	5	23	15
SOCIOLOGY	64	50	11	25	14	14	9
SOCIOLOGY/ANTHROPOLOGY	1	0	0	0	0	1	1
SOCIAL SCIENCES, N.E.C.	22	8	0	0	8	14	8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-37. — FEMALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1983

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	4,812	3,473	646	786	2,021	1,339	1,158
ENGINEERING	80	62	1	4	57	26	37
AEROSPACE	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0
BIOMEDICAL	4	4	0	2	2	0	1
CHEMICAL	26	13	0	1	12	13	17
CIVIL	6	5	0	0	5	1	0
ELECTRICAL	12	9	1	0	8	3	6
ENGINEERING SCIENCE	3	3	0	0	3	0	0
INDUSTRIAL	2	2	0	0	2	0	1
MECHANICAL	6	5	0	0	5	1	1
METALLURGICAL/MATERIALS	24	16	0	0	16	8	9
MINING	0	0	0	0	0	0	0
NUCLEAR	1	1	0	0	1	0	0
PETROLEUM	1	1	0	0	1	0	0
ENGINEERING, N.E.C.	3	3	0	1	2	0	2
PHYSICAL SCIENCES	537	433	41	4	385	104	244
ASTRONOMY	18	13	1	0	12	5	4
CHEMISTRY	430	347	37	5	305	83	191
PHYSICS	88	73	3	2	68	15	49
PHYSICAL SCIENCES, N.E.C.	1	0	0	0	0	1	0
ENVIRONMENTAL SCIENCES	62	48	2	1	45	14	13
ATMOSPHERIC SCIENCES	4	4	0	0	4	0	2
GEOSCIENCES	28	18	0	0	18	10	6
OCEANOGRAPHY	29	25	2	0	23	4	5
ENVIRONMENTAL SCIENCES, N.E.C.	1	1	0	1	0	0	0
MATHEMATICAL/COMPUTER SCIENCES	26	14	3	0	11	12	13
COMPUTER SCIENCE	10	7	0	0	7	3	7
MATHEMATICS AND APPLIED MATHEMATICS	11	2	0	0	2	9	6
STATISTICS	5	5	3	0	2	0	0
LIFE SCIENCES	3,803	2,713	575	696	1,442	1,090	807
AGRICULTURAL SCIENCES	54	27	0	1	26	27	9
BIOLOGICAL SCIENCES	2,416	1,801	385	288	1,128	615	543
ANATOMY	87	68	25	5	38	19	17
BIOCHEMISTRY	505	402	67	34	301	103	131
BIOLOGY	327	251	64	18	169	76	69
BIOMETRY/EPIDEMIOLOGY	23	11	1	7	3	12	9
BIOPHYSICS	49	48	11	5	32	1	8
BOTANY	97	72	7	0	65	25	16
CELL BIOLOGY	184	146	49	12	85	38	36
ECOLOGY	2	1	0	0	1	1	0
ENTOMOLOGY/PARASITOLOGY	19	9	3	0	6	10	4
GENETICS	125	96	17	24	55	29	24
MICROBIOLOGY	307	215	35	64	114	92	72
NUTRITION	46	26	3	6	17	20	13
PATHOLOGY	186	119	21	52	46	67	38
PHARMACOLOGY	199	147	35	20	92	52	59
PHYSIOLOGY	183	136	32	30	72	49	33
ZOOLOGY	58	39	10	2	27	19	10
BIOSCIENCES, N.E.C.	19	17	5	7	5	2	4
HEALTH SCIENCES	1,333	885	190	407	288	448	255
ANESTHESIOLOGY	15	8	0	8	0	7	0
CANCER/ONCOLOGY	51	43	6	13	24	8	2
CARDIOLOGY	49	28	4	17	7	21	7
DENTISTRY	41	22	7	6	9	19	15
ENDOCRINOLOGY	51	40	6	25	9	11	6
GASTROENTEROLOGY	13	11	5	3	3	2	1
HEMATOLOGY	50	41	5	26	10	9	7
NEUROLOGY	85	63	22	16	25	22	18
NURSING	5	0	0	0	0	5	0
OBSTETRICS/GYNECOLOGY	35	21	8	6	7	14	7
OPHTHALMOLOGY	45	31	5	17	9	14	10
OTORHINOLARYNGOLOGY	2	2	0	0	2	0	0
PEDIATRICS	196	111	34	49	28	85	34
PHARMACEUTICAL SCIENCES	54	35	2	3	30	19	21
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	49	41	11	22	8	8	8
PSYCHIATRY	101	84	16	61	7	17	10
PULMONARY DISEASE	36	17	6	11	0	19	5
RADIOLOGY	35	21	0	11	10	14	12
SPEECH PATHOLOGY/AUDIOLOGY	10	8	4	1	3	2	0
SURGERY	47	29	5	5	19	18	8
VETERINARY SCIENCES	19	14	1	5	8	5	2
CLINICAL MEDICINE, N.E.C.	303	191	41	94	56	112	74
HEALTH RELATED, N.E.C.	41	24	2	8	14	17	8
PSYCHOLOGY	179	140	31	53	54	39	20
SOCIAL SCIENCES	117	63	13	25	25	54	24
AGRICULTURAL ECONOMICS	6	3	0	0	3	3	0
ANTHROPOLOGY	28	13	1	7	5	15	0
ECONOMICS (EXCEPT AGRICULTURAL)	4	3	2	1	0	1	1
GEOGRAPHY	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	6	3	0	0	3	3	2
LINGUISTICS	22	5	1	0	4	17	9
POLITICAL SCIENCE	6	2	2	0	0	4	1
SOCIOLOGY	38	30	7	17	6	8	7
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	7	4	0	0	4	3	4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-38. — SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NON-FACULTY DOCTORAL RESEARCH STAFF IN ALL GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1983

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	20,829	20,790	39	4,936	4,888	48
ENGINEERING	1,113	1,109	4	631	630	1
AEROSPACE	32	32	0	24	24	0
AGRICULTURAL	4	4	0	4	4	0
BIOMEDICAL	28	28	0	11	11	0
CHEMICAL	198	198	0	50	50	0
CIVIL	131	131	0	86	86	0
ELECTRICAL	184	180	4	127	126	1
ENGINEERING SCIENCE	71	71	0	36	36	0
INDUSTRIAL	14	14	0	10	10	0
MECHANICAL	182	182	0	128	128	0
METALLURGICAL/MATERIALS	204	204	0	94	94	0
MINING	19	19	0	3	3	0
NUCLEAR	15	15	0	29	29	0
PETROLEUM	1	1	0	4	4	0
ENGINEERING, N.E.C.	30	30	0	25	25	0
PHYSICAL SCIENCES	4,458	4,444	14	759	756	3
ASTRONOMY	111	111	0	67	67	0
CHEMISTRY	2,989	2,979	10	308	305	3
PHYSICS	1,354	1,350	4	383	383	0
PHYSICAL SCIENCES, N.E.C.	4	4	0	1	1	0
ENVIRONMENTAL SCIENCES	419	414	5	301	297	4
ATMOSPHERIC SCIENCES	41	41	0	47	47	0
GEOSCIENCES	240	237	3	126	125	0
OCEANOGRAPHY	121	120	1	115	111	4
ENVIRONMENTAL SCIENCES, N.E.C.	17	16	1	13	13	0
MATHEMATICAL/COMPUTER SCIENCES	252	252	0	186	183	3
COMPUTER SCIENCE	82	82	0	61	58	3
MATHEMATICS AND APPLIED MATHEMATICS	137	137	0	119	119	0
STATISTICS	33	33	0	6	6	0
LIFE SCIENCES	13,789	13,775	14	2,686	2,660	26
AGRICULTURAL SCIENCES	298	298	0	173	165	8
BIOLOGICAL SCIENCES	8,417	8,404	13	1,583	1,565	18
ANATOMY	297	297	0	60	60	0
BIOCHEMISTRY	1,786	1,786	0	283	283	0
BIOLOGY	1,009	998	11	324	306	18
BIOMETRY/EPIDEMIOLOGY	54	54	0	23	23	0
BIOPHYSICS	184	184	0	24	24	0
BOTANY	369	369	0	72	72	0
CELL BIOLOGY	620	620	0	41	41	0
ECOLOGY	39	39	0	9	9	0
ENTOMOLOGY/PARASITOLOGY	112	112	0	61	61	0
GENETICS	344	344	0	40	40	0
MICROBIOLOGY	1,017	1,017	0	146	146	0
NUTRITION	151	151	0	49	49	0
PATHOLOGY	584	584	0	75	75	0
PHARMACOLOGY	801	801	0	158	158	0
PHYSIOLOGY	773	773	0	157	157	0
ZOOLOGY	203	203	0	41	41	0
BIOSCIENCES, N.E.C.	74	72	2	20	20	0
HEALTH SCIENCES	5,074	5,073	1	930	930	0
ANESTHESIOLOGY	59	59	0	7	7	0
CANCER/ONCOLOGY	157	157	0	48	48	0
CARDIOLOGY	336	336	0	57	57	0
DENTISTRY	197	197	0	81	81	0
ENDOCRINOLOGY	173	173	0	6	6	0
GASTROENTEROLOGY	148	148	0	12	12	0
HEMATOLOGY	154	154	0	4	4	0
NEUROLOGY	301	301	0	45	45	0
NURSING	6	6	0	7	7	0
OBSTETRICS/GYNECOLOGY	116	116	0	12	12	0
OPHTHALMOLOGY	137	137	0	10	10	0
OTORHINOLARYNGOLOGY	23	23	0	3	3	0
PEDIATRICS	545	545	0	55	55	0
PHARMACEUTICAL SCIENCES	241	241	0	57	57	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	161	161	0	64	64	0
PSYCHIATRY	264	264	0	164	164	0
PULMONARY DISEASE	149	149	0	6	6	0
RADIOLOGY	187	187	0	72	72	0
SPEECH PATHOLOGY/AUDIOLOGY	18	18	0	23	23	0
SURGERY	390	390	0	51	51	0
VETERINARY SCIENCES	51	50	1	27	27	0
CLINICAL MEDICINE, N.E.C.	1,160	1,160	0	108	108	0
HEALTH RELATED, N.E.C.	101	101	0	9	9	0
PSYCHOLOGY	437	436	1	154	153	1
SOCIAL SCIENCES	361	360	1	219	209	10
AGRICULTURAL ECONOMICS	28	28	0	29	29	0
ANTHROPOLOGY	61	60	1	39	38	1
ECONOMICS (EXCEPT AGRICULTURAL)	20	20	0	42	42	0
GEOGRAPHY	7	7	0	9	9	0
HISTORY AND PHILOSOPHY OF SCIENCE	19	19	0	0	0	0
LINGUISTICS	51	51	0	2	2	0
POLITICAL SCIENCE	43	43	0	27	25	2
SOCIOLOGY	102	102	0	26	19	7
SOCIOLOGY/ANTHROPOLOGY	1	1	0	1	1	0
SOCIAL SCIENCES, N.E.C.	29	29	0	44	44	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-39. — SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NON-FACULTY DOCTORAL RESEARCH STAFF IN PUBLIC GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1983

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	11,752	11,725	27	2,983	2,938	45
ENGINEERING	611	609	2	365	364	1
AEROSPACE	15	15	0	15	15	0
AGRICULTURAL	1	1	0	4	4	0
BIOMEDICAL	11	11	0	7	7	0	
CHEMICAL	115	115	0	21	31	0
CIVIL	80	80	0	68	68	0
ELECTRICAL	112	110	2	48	47	1
ENGINEERING SCIENCE	16	16	0	8	8	0
INDUSTRIAL	10	10	0	10	10	0
MECHANICAL	98	98	0	80	80	0
METALLURGICAL/MATERIALS	113	113	0	56	56	0
MINING	1	1	0	3	3	0
NUCLEAR	14	14	0	29	29	0
PETROLEUM	1	1	0	0	0	0
ENGINEERING, N.E.C.	24	24	0	6	6	0
PHYSICAL SCIENCES	2,902	2,891	11	431	428	3
ASTRONOMY	77	77	0	24	24	0
CHEMISTRY	1,947	1,939	8	183	180	3
PHYSICS	874	871	3	223	223	0
PHYSICAL SCIENCES, N.E.C.	4	4	0	1	1	0
ENVIRONMENTAL SCIENCES	270	265	5	160	156	4
ATMOSPHERIC SCIENCES	40	40	0	47	47	0
GEOSCIENCES	139	136	3	48	48	0
OCEANOGRAPHY	83	82	1	62	58	4
ENVIRONMENTAL SCIENCES, N.E.C.	8	7	1	3	3	0
MATHEMATICAL/COMPUTER SCIENCES	149	149	0	96	83	3
COMPUTER SCIENCE	48	48	0	15	12	3
MATHEMATICS AND APPLIED MATHEMATICS	73	73	0	66	66	0
STATISTICS	28	28	0	5	5	0
LIFE SCIENCES	7,349	7,342	7	1,735	1,711	24
AGRICULTURAL SCIENCES	277	277	0	162	154	8
BIOLOGICAL SCIENCES	4,755	4,748	7	1,033	1,017	16
ANATOMY	157	157	0	29	29	0
BIOCHEMISTRY	1,047	1,047	0	163	163	0
BIOLOGY	455	450	5	182	166	16
BIOMETRY/EPIDEMIOLOGY	25	25	0	14	14	0
BIOPHYSICS	35	35	0	16	16	0
BOTANY	339	339	0	69	69	0
CELL BIOLOGY	192	192	0	29	29	0
ECOLOGY	38	38	0	7	7	0
ENTOMOLOGY/PARASITOLOGY	107	107	0	56	56	0
GENETICS	184	184	0	23	23	0
MICROBIOLOGY	641	641	0	109	109	0
NUTRITION	69	69	0	32	32	0
PATHOLOGY	308	308	0	51	51	0
PHARMACOLOGY	446	446	0	101	101	0
PHYSIOLOGY	465	465	0	96	96	0
ZOOLOGY	189	189	0	40	40	0
BIOSCIENCES, N.E.C.	58	56	2	16	16	0
HEALTH SCIENCES	2,317	2,317	0	540	540	0
ANESTHESIOLOGY	17	17	0	4	4	0
CANCER/ONCOLOGY	111	111	0	33	33	0
CARDIOLOGY	204	204	0	40	40	0
DENTISTRY	118	118	0	58	58	0
ENDOCRINOLOGY	104	104	0	2	2	0
GASTROENTEROLOGY	66	66	0	5	5	0
HEMATOLOGY	82	82	0	1	1	0
NEUROLOGY	127	127	0	24	24	0
NURSING	6	6	0	7	7	0
OBSTETRICS/GYNECOLOGY	48	48	0	5	5	0
OPHTHALMOLOGY	61	61	0	5	5	0
OTORHINOLARYNGOLOGY	7	7	0	2	2	0
PEDIATRICS	155	155	0	9	9	0
PHARMACEUTICAL SCIENCES	225	225	0	44	44	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	73	73	0	51	51	0
PSYCHIATRY	113	113	0	142	142	0
PULMONARY DISEASE	94	94	0	5	5	0
RADIOLOGY	64	64	0	11	11	0
SPEECH PATHOLOGY/AUDIOLOGY	16	16	0	22	22	0
SURGERY	164	164	0	25	25	0
VETERINARY SCIENCES	32	32	0	6	6	0
CLINICAL MEDICINE, N.E.C.	376	376	0	36	36	0
HEALTH RELATED, N.E.C.	54	54	0	3	3	0
PSYCHOLOGY	348	347	1	79	78	1
SOCIAL SCIENCES	223	222	1	127	118	9
AGRICULTURAL ECONOMICS	25	25	0	29	29	0
ANTHROPOLOGY	46	45	1	22	21	1
ECONOMICS (EXCEPT AGRICULTURAL)	8	8	0	1	1	0
GEOGRAPHY	6	6	0	9	9	0
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	0	0	0	0
LINGUISTICS	25	25	0	2	2	0
POLITICAL SCIENCE	27	27	0	25	24	1
SOCIOLOGY	62	62	0	16	9	7
SOCIOLOGY/ANTHROPOLOGY	0	0	0	1	1	0
SOCIAL SCIENCES, N.E.C.	23	23	0	22	22	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-40. — SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NON-FACULTY DOCTORAL RESEARCH STAFF IN PRIVATE GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1983

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	9,077	9,065	12	1,953	1,950	3
ENGINEERING	502	500	2	266	266	0
AEROSPACE	17	17	0	9	9	0
AGRICULTURAL	3	3	0	0	0	0
BIOMEDICAL	17	17	0	4	4	0
CHEMICAL	83	83	0	19	19	0
CIVIL	51	51	0	18	18	0
ELECTRICAL	72	70	2	79	79	0
ENGINEERING SCIENCE	55	55	0	28	28	0
INDUSTRIAL	4	4	0	0	0	0
MECHANICAL	84	84	0	48	48	0
METALLURGICAL/MATERIALS	91	91	0	38	38	0
MINING	18	18	0	0	0	0
NUCLEAR	1	1	0	0	0	0
PETROLEUM	0	0	0	4	4	0
ENGINEERING, N.E.C.	6	6	0	19	19	0
PHYSICAL SCIENCES	1,554	1,553	1	328	328	0
ASTRONOMY	34	34	0	43	43	0
CHEMISTRY	1,042	1,040	2	125	125	0
PHYSICS	480	479	1	160	160	0
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	149	149	0	141	141	0
ATMOSPHERIC SCIENCES	1	1	0	0	0	0
GEOSCIENCES	101	101	0	78	78	0
OCEANOGRAPHY	38	38	0	53	53	0
ENVIRONMENTAL SCIENCES, N.E.C.	9	9	0	10	10	0
MATHEMATICAL/COMPUTER SCIENCES	103	103	0	100	100	0
COMPUTER SCIENCE	34	34	0	46	46	0
MATHEMATICS AND APPLIED MATHEMATICS	64	64	0	53	53	0
STATISTICS	5	5	0	1	1	0
LIFE SCIENCES	6,440	6,433	7	951	949	2
AGRICULTURAL SCIENCES	21	21	0	11	11	0
BIOLOGICAL SCIENCES	3,662	3,656	6	550	548	2
ANATOMY	140	140	0	31	31	0
BIOCHEMISTRY	739	739	0	120	120	0
BIOLOGY	554	548	6	142	140	2
BIOMETRY/EPIDEMIOLOGY	29	29	0	9	9	0
BIOPHYSICS	149	149	0	8	8	0
BOTANY	30	30	0	3	3	0
CELL BIOLOGY	428	428	0	12	12	0
ECOLOGY	1	1	0	2	2	0
ENTOMOLOGY/PARASITOLOGY	5	5	0	5	5	0
GENETICS	160	160	0	17	17	0
MICROBIOLOGY	376	376	0	37	37	0
NUTRITION	82	82	0	17	17	0
PATHOLOGY	276	276	0	24	24	0
PHARMACOLOGY	355	355	0	57	57	0
PHYSIOLOGY	308	308	0	61	61	0
ZOOLOGY	14	14	0	1	1	0
BIOSCIENCES, N.E.C.	16	16	0	4	4	0
HEALTH SCIENCES	2,757	2,756	1	390	390	0
ANESTHESIOLOGY	42	42	0	3	3	0
CANCER/ONCOLOGY	46	46	0	15	15	0
CARDIOLOGY	132	132	0	17	17	0
DENTISTRY	79	79	0	23	23	0
ENDOCRINOLOGY	69	69	0	4	4	0
GASTROENTEROLOGY	82	82	0	7	7	0
HEMATOLOGY	72	72	0	3	3	0
NEUROLOGY	174	174	0	21	21	0
NURSING	0	0	0	0	0	0
OBSTETRICS/GYNECOLOGY	68	68	0	7	7	0
OPHTHALMOLOGY	76	76	0	5	5	0
OTORHINOLARYNGOLOGY	16	16	0	1	1	0
PEDIATRICS	390	390	0	46	46	0
PHARMACEUTICAL SCIENCES	16	16	0	13	13	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	88	88	0	13	13	0
PSYCHIATRY	151	151	0	24	24	0
PULMONARY DISEASE	55	55	0	1	1	0
RADIOLOGY	123	123	0	61	61	0
SPEECH PATHOLOGY/AUDIOLOGY	2	2	0	1	1	0
SURGERY	226	226	0	26	26	0
VETERINARY SCIENCES	19	18	1	21	21	0
CLINICAL MEDICINE, N.E.C.	784	784	0	72	72	0
HEALTH RELATED, N.E.C.	47	47	0	6	6	0
PSYCHOLOGY	189	189	0	75	75	0
SOCIAL SCIENCES	138	138	0	92	91	1
AGRICULTURAL ECONOMICS	3	3	0	0	0	0
ANTHROPOLOGY	15	15	0	17	17	0
ECONOMICS (EXCEPT AGRICULTURAL)	12	12	0	41	41	0
GEOGRAPHY	1	1	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	18	18	0	0	0	0
LINGUISTICS	26	26	0	0	0	0
POLITICAL SCIENCE	16	16	0	2	1	1
SOCIOLOGY	40	40	0	10	10	0
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	0	0
SOCIAL SCIENCES, N.E.C.	6	6	0	22	22	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-41. — MALE SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NON-FACULTY DOCTORAL RESEARCH STAFF IN ALL GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1983

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	16,017	15,986	31	3,947	3,905	42
ENGINEERING	1,025	1,022	3	596	595	1
AEROSPACE	32	32	0	24	24	0
AGRICULTURAL	4	4	0	4	4	0
BIOMEDICAL	24	24	0	9	9	0
CHEMICAL	172	172	0	43	43	0
CIVIL	125	125	0	83	83	0
ELECTRICAL	172	169	3	120	119	1
ENGINEERING SCIENCE	68	68	0	32	32	0
INDUSTRIAL	12	12	0	9	9	0
MECHANICAL	176	176	0	125	125	0
METALLURGICAL/MATERIALS	180	180	0	89	89	0
MINING	19	19	0	3	3	0
NUCLEAR	14	14	0	27	27	0
PETROLEUM	0	0	0	4	4	0
ENGINEERING, N.E.C.	27	27	0	24	24	0
PHYSICAL SCIENCES	3,921	3,909	12	680	678	2
ASTRONOMY	93	93	0	62	62	0
CHEMISTRY	2,559	2,551	8	257	255	2
PHYSICS	1,266	1,262	4	361	361	0
PHYSICAL SCIENCES, N.E.C.	3	3	0	0	0	0
ENVIRONMENTAL SCIENCES	357	352	5	280	277	3
ATMOSPHERIC SCIENCES	37	37	0	46	46	0
GEOSCIENCES	212	209	3	115	115	0
OCEANOGRAPHY	92	91	1	107	104	3
ENVIRONMENTAL SCIENCES, N.E.C.	16	15	1	12	12	0
MATHEMATICAL/COMPUTER SCIENCES	226	226	0	172	169	3
COMPUTER SCIENCE	72	72	0	59	56	3
MATHEMATICS AND APPLIED MATHEMATICS	126	126	0	109	109	0
STATISTICS	28	28	0	4	4	0
LIFE SCIENCES	9,986	9,975	11	1,960	1,937	23
AGRICULTURAL SCIENCES	244	244	0	162	154	8
BIOLOGICAL SCIENCES	6,001	5,991	10	1,127	1,112	15
ANATOMY	210	210	0	41	41	0
BIOCHEMISTRY	1,281	1,281	0	198	198	0
BIOLOGY	682	673	9	206	191	15
BIOMETRY/EPIDEMIOLOGY	31	31	0	20	20	0
BIOPHYSICS	135	135	0	18	18	0
BOTANY	272	272	0	65	65	0
CELL BIOLOGY	436	436	0	23	23	0
ECOLOGY	37	37	0	6	6	0
ENTOMOLOGY/PARASITOLOGY	93	93	0	52	52	0
GENETICS	219	219	0	28	28	0
MICROBIOLOGY	710	710	0	101	101	0
NUTRITION	105	105	0	36	36	0
PATHOLOGY	398	398	0	51	51	0
PHARMACOLOGY	602	602	0	115	115	0
PHYSIOLOGY	590	590	0	121	121	0
ZOOLOGY	145	145	0	34	34	0
BIOSCIENCES, N.E.C.	55	54	1	12	12	0
HEALTH SCIENCES	3,741	3,740	1	671	671	0
ANESTHESIOLOGY	44	44	0	5	5	0
CANCER/ONCOLOGY	106	106	0	37	37	0
CARDIOLOGY	287	287	0	44	44	0
DENTISTRY	156	156	0	78	78	0
ENDOCRINOLOGY	122	122	0	4	4	0
GASTROENTEROLOGY	135	135	0	5	5	0
HEMATOLOGY	104	104	0	1	1	0
NEUROLOGY	216	216	0	34	34	0
NURSING	1	1	0	4	4	0
OBSTETRICS/GYNECOLOGY	81	81	0	9	9	0
OPHTHALMOLOGY	92	92	0	5	5	0
OTORHINOLARYNGOLOGY	21	21	0	1	1	0
PEDIATRICS	349	349	0	44	44	0
PHARMACEUTICAL SCIENCES	187	187	0	46	46	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	112	112	0	34	34	0
PSYCHIATRY	163	163	0	96	96	0
PULMONARY DISEASE	113	113	0	6	6	0
RADIOLOGY	152	152	0	59	59	0
SPEECH PATHOLOGY/AUDIOLOGY	8	8	0	18	18	0
SURGERY	343	343	0	39	39	0
VETERINARY SCIENCES	32	31	1	16	16	0
CLINICAL MEDICINE, N.E.C.	857	857	0	79	79	0
HEALTH RELATED, N.E.C.	60	60	0	7	7	0
PSYCHOLOGY	258	258	0	101	100	1
SOCIAL SCIENCES	244	244	0	158	149	9
AGRICULTURAL ECONOMICS	22	22	0	26	26	0
ANTHROPOLOGY	33	33	0	25	25	0
ECONOMICS (EXCEPT AGRICULTURAL)	16	16	0	21	21	0
GEOGRAPHY	7	7	0	7	7	0
HISTORY AND PHILOSOPHY OF SCIENCE	13	13	0	0	0	0
LINGUISTICS	29	29	0	1	1	0
POLITICAL SCIENCE	37	37	0	26	24	2
SOCIOLOGY	64	64	0	17	10	7
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	0	0
SOCIAL SCIENCES, N.E.C.	22	22	0	35	35	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-42. — FEMALE SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NON-FACULTY DOCTORAL RESEARCH STAFF IN ALL GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1983

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	4,812	4,804	8	989	983	6
ENGINEERING	88	87	1	35	35	0
AEROSPACE	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	4	4	0	2	2	0
CHEMICAL	26	26	0	7	7	0
CIVIL	6	6	0	3	3	0
ELECTRICAL	12	11	1	7	7	0
ENGINEERING SCIENCE	3	3	0	4	4	0
INDUSTRIAL	2	2	0	1	1	0
MECHANICAL	6	6	0	3	3	0
METALLURGICAL/MATERIALS	24	24	0	5	5	0
MINING	0	0	0	0	0	0
NUCLEAR	1	1	0	2	2	0
PETROLEUM	1	1	0	0	0	0
ENGINEERING, N.E.C.	3	3	0	1	1	0
PHYSICAL SCIENCES	537	535	2	79	78	1
ASTRONOMY	18	18	0	5	5	0
CHEMISTRY	430	428	2	51	50	1
PHYSICS	88	88	0	22	22	0
PHYSICAL SCIENCES, N.E.C.	1	1	0	1	1	0
ENVIRONMENTAL SCIENCES	62	62	0	21	20	1
ATMOSPHERIC SCIENCES	4	4	0	1	1	0
GEOSCIENCES	28	28	0	11	11	0
OCEANOGRAPHY	29	29	0	8	7	1
ENVIRONMENTAL SCIENCES, N.E.C.	1	1	0	1	1	0
MATHEMATICAL/COMPUTER SCIENCES	26	26	0	14	14	0
COMPUTER SCIENCE	10	10	0	2	2	0
MATHEMATICS AND APPLIED MATHEMATICS	11	11	0	10	10	0
STATISTICS	5	5	0	2	2	0
LIFE SCIENCES	3,803	3,800	3	726	723	3
AGRICULTURAL SCIENCES	54	54	0	11	11	0
BIOLOGICAL SCIENCES	2,416	2,413	3	456	453	3
ANATOMY	87	87	0	19	19	0
BIOCHEMISTRY	505	505	0	85	85	0
BIOLOGY	327	325	2	118	115	3
BIOMETRY/EPIDEMIOLOGY	23	23	0	3	3	0
BIOPHYSICS	49	49	0	6	6	0
BOTANY	97	97	0	7	7	0
CELL BIOLOGY	184	184	0	18	18	0
ECOLOGY	2	2	0	3	3	0
ENTOMOLOGY/PARASITOLOGY	19	19	0	9	9	0
GENETICS	125	125	0	12	12	0
MICROBIOLOGY	307	307	0	45	45	0
NUTRITION	46	46	0	13	13	0
PATHOLOGY	186	186	0	24	24	0
PHARMACOLOGY	199	199	0	43	43	0
PHYSIOLOGY	183	183	0	36	36	0
ZOOLOGY	58	58	0	7	7	0
BIOSCIENCES, N.E.C.	19	18	1	8	8	0
HEALTH SCIENCES	1,333	1,333	0	259	259	0
ANESTHESIOLOGY	15	15	0	2	2	0
CANCER/ONCOLOGY	51	51	0	11	11	0
CARDIOLOGY	49	49	0	13	13	0
DENTISTRY	41	41	0	3	3	0
ENDOCRINOLOGY	51	51	0	2	2	0
GASTROENTEROLOGY	13	13	0	7	7	0
HEMATOLOGY	50	50	0	3	3	0
NEUROLOGY	85	85	0	11	11	0
NURSING	5	5	0	3	3	0
OBSTETRICS/GYNECOLOGY	35	35	0	3	3	0
OPHTHALMOLOGY	45	45	0	5	5	0
OTORHINOLARYNGOLOGY	2	2	0	2	2	0
PEDIATRICS	196	196	0	11	11	0
PHARMACEUTICAL SCIENCES	54	54	0	11	11	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	49	49	0	30	30	0
PSYCHIATRY	101	101	0	70	70	0
PULMONARY DISEASE	36	36	0	0	0	0
RADIOLOGY	35	35	0	13	13	0
SPEECH PATHOLOGY/AUDIOLOGY	10	10	0	5	5	0
SURGERY	47	47	0	12	12	0
VETERINARY SCIENCES	19	19	0	11	11	0
CLINICAL MEDICINE, N.E.C.	303	303	0	29	29	0
HEALTH RELATED, N.E.C.	41	41	0	2	2	0
PSYCHOLOGY	179	178	1	53	53	0
SOCIAL SCIENCES	117	116	1	61	60	1
AGRICULTURAL ECONOMICS	6	6	0	3	3	0
ANTHROPOLOGY	28	27	1	14	13	1
ECONOMICS (EXCEPT AGRICULTURAL)	4	4	0	21	21	0
GEOGRAPHY	0	0	0	2	2	0
HISTORY AND PHILOSOPHY OF SCIENCE	6	6	0	0	0	0
LINGUISTICS	22	22	0	1	1	0
POLITICAL SCIENCE	6	6	0	1	1	0
SOCIOLOGY	38	38	0	9	9	0
SOCIOLOGY/ANTHROPOLOGY	0	0	0	1	1	0
SOCIAL SCIENCES, N.E.C.	7	7	0	9	9	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-1. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	344,119	358,323	373,198	383,100	391,640	398,982	413,564	2.5	3.7	2.7
ENGINEERING	66,771	69,142	72,262	75,084	80,479	84,594	92,717	4.0	9.6	4.8
AEROSPACE	1,477	1,518	1,481	1,737	1,883	1,941	2,404	4.6	24.1	7.2
AGRICULTURAL	639	709	740	742	802	875	969	5.4	10.7	6.1
BIOMEDICAL	946	900	1,051	1,011	1,057	1,116	1,244	2.8	11.5	4.0
CHEMICAL	5,205	5,201	5,605	6,015	6,496	7,189	7,963	5.5	5.2	5.5
CIVIL	12,016	12,712	13,217	13,502	14,515	14,523	15,404	3.2	6.1	3.6
ELECTRICAL	15,926	17,406	17,789	19,227	20,193	22,017	24,780	5.5	12.5	6.5
ENGINEERING SCIENCE	1,759	1,737	1,681	1,796	1,965	2,130	2,281	3.2	7.1	3.8
INDUSTRIAL	10,687	10,438	10,714	9,870	10,026	9,870	10,641	-1.3	7.8	-.1
MECHANICAL	8,313	8,722	9,251	9,888	10,618	11,467	12,941	5.5	12.9	6.5
METALLURGICAL/MATERIALS	2,375	2,599	2,756	2,910	3,125	3,124	3,445	4.7	10.3	5.5
MINING	515	452	389	413	462	449	524	-2.3	16.7	.2
NUCLEAR	1,600	1,491	1,318	1,241	1,283	1,301	1,203	-3.4	-7.5	-4.0
PETROLEUM	376	379	424	503	521	586	737	7.7	25.8	10.1
ENGINEERING, N.E.C.	4,937	4,918	5,846	6,729	7,533	8,006	8,575	8.4	7.1	8.2
PHYSICAL SCIENCES	26,631	26,855	26,700	26,952	27,382	28,199	29,448	1.0	4.4	1.4
ASTRONOMY	694	649	652	628	597	632	618	-1.5	-2.2	-1.6
CHEMISTRY	15,651	16,020	16,101	16,222	16,347	17,015	17,819	1.4	4.7	1.9
PHYSICS	10,067	9,933	9,699	9,898	10,150	10,306	10,785	.4	4.6	1.0
PHYSICAL SCIENCES, N.E.C.	219	253	248	204	288	246	226	2.0	-8.1	.5
ENVIRONMENTAL SCIENCES	13,034	13,658	13,854	14,208	14,422	15,174	15,625	2.6	3.0	2.6
ATMOSPHERIC SCIENCES	917	924	852	889	882	889	896	-.5	.8	-.3
GEOSCIENCES	7,741	8,071	8,532	8,668	8,808	9,621	10,321	3.7	7.3	4.2
OCEANOGRAPHY	1,775	1,957	1,867	1,992	2,082	2,091	2,117	2.8	1.2	2.5
ENVIRONMENTAL SCIENCES, N.E.C.	2,601	2,706	2,603	2,659	2,650	2,573	2,291	-.2	-11.0	-1.8
MATHEMATICAL/COMPUTER SCIENCES	25,719	25,177	26,753	28,938	32,352	37,011	41,357	6.3	11.7	7.0
COMPUTER SCIENCE	8,627	9,108	11,690	13,578	16,437	19,812	23,843	14.9	20.3	15.6
MATHEMATICS AND APPLIED MATHEMATICS	15,046	14,053	13,109	13,319	13,932	15,145	15,487	.1	2.3	.4
STATISTICS	2,046	2,016	1,954	2,041	1,983	2,054	2,027	.1	-1.3	-.1
LIFE SCIENCES	87,879	95,472	99,827	102,504	103,124	102,889	103,899	2.7	1.0	2.4
AGRICULTURAL SCIENCES	11,154	11,520	12,069	12,254	12,100	12,314	12,290	1.7	-.2	1.4
BIOLOGICAL SCIENCES	47,932	49,556	48,[illegible]	47,890	46,979	46,310	46,208	-.6	-.2	-.5
ANATOMY	1,158	1,188	1,133	1,082	1,072	1,074	1,053	-1.2	-2.0	-1.3
BIOCHEMISTRY	3,870	3,938	4,134	4,053	4,061	4,124	4,271	1.1	3.6	1.4
BIOLOGY	16,990	17,005	15,[illegible]	14,992	14,203	13,397	13,292	-3.8	-.8	-3.4
BIOMETRY/EPIDEMIOLOGY	870	1,058	1,12[illegible]	1,259	1,182	1,166	1,156	5.0	-.9	4.1
BIOPHYSICS	594	570	525	485	463	440	456	-4.9	3.6	-3.7
BOTANY	3,800	3,845	3,658	3,617	3,498	3,644	3,450	-.7	-5.3	-1.4
CELL BIOLOGY	762	82[illegible]	894	965	1,018	1,143	1,173	7.0	2.6	6.4
ECOLOGY	924	1,067	1,064	1,181	1,101	1,051	1,007	2.2	-4.2	1.2
ENTOMOLOGY/PARASITOLOGY	1,595	1,602	1,697	1,722	1,664	1,540	1,475	-.6	-4.2	-1.1
GENETICS	907	1,030	970	964	937	990	1,035	1.5	4.5	1.9
MICROBIOLOGY	4,302	4,480	4,163	4,178	4,070	4,130	4,224	-.7	2.3	-.3
NUTRITION	3,137	3,816	3,920	4,125	4,355	4,359	4,395	5.6	.8	4.9
PATHOLOGY	1,275	1,357	1,456	1,429	1,444	1,460	1,502	2.3	2.9	2.4
PHARMACOLOGY	1,705	1,794	2,004	2,015	2,024	2,084	2,097	3.4	.6	3.0
PHYSIOLOGY	2,219	2,122	2,192	2,104	2,144	2,058	2,020	-1.2	-1.8	-1.3
ZOOLOGY	3,303	3,076	2,900	2,686	2,625	2,503	2,463	-4.5	-1.6	-4.1
BIOSCIENCES, N.E.C.	561	763	1,011	1,033	1,118	1,147	1,139	12.7	-.7	10.6
HEALTH SCIENCES	28,793	34,396	39,255	42,360	44,045	44,265	45,401	7.4	2.6	6.7
ANESTHESIOLOGY	5	5	20	17	20	38	43	40.2	13.2	36.0
CANCER/ONCOLOGY	72	75	63	56	55	71	74	-.2	4.2	.4
CARDIOLOGY	2	5	3	38	36	59	34	75.8	-42.4	49.9
DENTISTRY	910	984	1,029	1,002	942	836	816	-1.4	-2.4	-1.5
ENDOCRINOLOGY	36	32	49	53	51	53	64	6.7	20.8	8.6
GASTROENTEROLOGY	8	8	0	0	4	1	0	-29.3	-100.0	-100.0
HEMATOLOGY	4	18	20	16	9	7	10	9.8	42.9	14.0
NEUROLOGY	218	233	261	249	191	204	261	-1.1	27.9	2.6
NURSING	7,255	10,943	12,796	13,877	15,703	16,254	16,945	14.4	4.3	12.9
OBSTETRICS/GYNECOLOGY	59	27	36	6	13	19	17	-17.2	-10.5	-16.3
OPHTHALMOLOGY	13	16	6	16	22	11	10	-2.7	-9.1	-3.7
OTORHINOLARYNGOLOGY	63	45	13	14	11	12	6	-24.1	-50.0	-28.5
PEDIATRICS	215	152	131	138	149	154	151	-5.4	-1.9	-4.9
PHARMACEUTICAL SCIENCES	2,217	2,472	2,441	2,434	2,549	2,519	2,614	2.2	3.8	2.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,470	4,555	6,428	7,103	7,226	6,816	6,681	7.3	-2.0	5.9
PSYCHIATRY	147	150	133	63	106	129	149	-2.7	19.2	.2
PULMONARY DISEASE	0	3	1	15	9	12	2	**	-83.3	**
RADIOLOGY	285	311	283	283	277	290	231	.3	-20.3	-3.0
SPEECH PATHOLOGY/AUDIOLOGY	7,630	8,162	8,296	8,615	8,596	8,683	8,851	2.2	1.9	2.1
SURGERY	170	154	91	109	117	112	95	-6.7	-15.2	-8.0
VETERINARY SCIENCES	428	487	535	511	481	471	446	1.6	-1.1	1.2
CLINICAL MEDICINE, N.E.C.	295	479	582	793	731	783	739	17.7	-5.6	14.0
HEALTH RELATED, N.E.C.	4,291	5,078	6,038	6,952	6,747	6,735	7,142	7.8	6.0	7.5
PSYCHOLOGY	37,449	38,628	39,786	40,636	40,691	40,098	41,134	1.1	2.6	1.3
SOCIAL SCIENCES	86,616	89,391	94,016	94,778	93,190	91,017	89,384	.8	-1.8	.5
AGRICULTURAL ECONOMICS	2,171	2,219	2,221	2,343	2,262	2,267	2,295	.7	1.2	.8
ANTHROPOLOGY	6,623	6,728	6,343	6,322	6,118	5,948	5,693	-1.8	-4.3	-2.1
ECONOMICS (EXCEPT AGRICULTURAL)	11,900	12,063	12,130	13,132	13,344	13,735	13,587	2.4	-1.1	1.9
GEOGRAPHY	3,707	3,375	3,043	3,204	3,187	3,166	3,060	-2.6	-3.3	-2.7
HISTORY AND PHILOSOPHY OF SCIENCE	322	300	265	280	248	256	253	-3.8	-1.2	-3.4
LINGUISTICS	2,844	2,648	3,063	3,007	3,139	2,803	3,022	-.2	7.8	.9
POLITICAL SCIENCE	26,062	27,199	30,735	31,212	30,791	29,907	28,275	2.3	-5.5	1.2
SOCIOLOGY	9,296	8,864	8,159	8,001	7,816	7,246	6,951	-4.1	-4.1	-4.1
SOCIOLOGY/ANTHROPOLOGY	1,359	1,398	1,236	1,306	1,110	1,133	1,182	-3.0	4.3	-2.0
SOCIAL SCIENCES, N.E.C.	22,321	24,577	26,821	26,072	25,175	24,556	25,066	1.6	2.1	1.7

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-2. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1976-77 AND 1979-83 1/

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL INSTITUTIONS	344,119	358,323	373,198	383,100	391,640	398,982	413,564	2.5	3.7	2.7
NEW ENGLAND	25,060	26,379	28,879	30,887	30,518	31,571	33,129	3.9	4.9	4.1
CONNECTICUT	5,090	5,476	6,392	6,781	6,650	7,301	7,503	6.2	2.8	5.7
MAINE	512	469	475	467	395	416	509	-3.4	22.4	-.1
MASSACHUSETTS	15,888	16,792	18,284	19,864	20,263	20,454	21,517	4.3	5.2	4.4
NEW HAMPSHIRE	743	775	744	819	771	839	863	2.0	2.9	2.2
RHODE ISLAND	1,746	1,753	1,870	1,823	1,868	1,921	2,063	1.6	7.4	2.4
VERMONT	1,081	1,114	1,114	1,133	571	640	674	-8.4	5.3	-6.5
MIDDLE ATLANTIC	62,201	64,924	65,951	68,094	72,904	73,707	76,676	2.9	4.0	3.0
NEW JERSEY	10,227	10,280	10,316	10,242	10,461	10,222	10,717	*	4.8	.7
NEW YORK	36,031	38,554	39,268	40,054	43,194	44,167	46,078	3.5	4.3	3.6
PENNSYLVANIA	15,943	16,090	16,367	17,798	19,249	19,318	19,881	3.3	2.9	3.2
EAST NORTH CENTRAL	62,032	62,894	64,162	64,353	66,306	67,431	70,072	1.4	3.9	1.8
ILLINOIS	17,384	18,056	18,905	19,569	19,472	19,624	20,431	2.0	4.1	2.3
INDIANA	7,559	7,677	7,494	7,735	8,091	8,308	8,630	1.6	3.9	1.9
MICHIGAN	12,989	13,067	13,476	13,352	12,838	13,179	13,766	-.2	4.5	-.8
OHIO	15,466	15,650	16,127	16,893	17,069	17,313	18,125	1.9	4.7	2.3
WISCONSIN	8,634	8,444	8,160	8,804	8,836	9,007	9,120	.7	1.3	.8
WEST NORTH CENTRAL	23,536	24,144	24,698	25,649	25,293	25,867	26,764	1.6	3.5	1.9
IOWA	4,251	4,281	4,611	4,696	4,536	4,805	5,060	2.1	5.3	2.5
KANSAS	4,449	4,758	4,854	5,038	4,930	4,811	5,173	1.3	7.5	2.2
MINNESOTA	5,361	5,186	5,619	5,686	5,702	5,759	5,986	1.2	3.9	1.6
MISSOURI	6,414	6,397	6,102	6,462	6,202	6,520	6,350	-.3	-2.6	-.1
NEBRASKA	1,739	2,126	2,122	2,159	2,338	2,294	2,412	4.7	5.1	4.8
NORTH DAKOTA	809	836	776	907	913	946	994	2.6	5.1	3.0
SOUTH DAKOTA	513	560	614	701	672	732	789	6.1	7.8	6.3
SOUTH ATLANTIC	47,746	49,743	53,420	54,322	56,487	57,186	58,039	3.1	1.5	2.8
DELAWARE	902	884	1,032	1,084	1,135	1,173	1,180	4.5	.6	3.9
DISTRICT OF COLUMBIA	7,704	9,149	9,153	8,925	9,749	8,786	8,389	2.2	-4.5	1.2
FLORIDA	9,060	9,016	10,458	10,799	11,320	11,771	12,291	4.5	4.4	4.5
GEORGIA	5,509	5,504	5,802	6,103	6,203	6,371	6,164	2.5	-3.2	1.6
MARYLAND	6,645	6,696	7,568	7,017	7,373	7,328	7,730	1.6	5.5	2.2
NORTH CAROLINA	6,448	6,660	7,093	7,380	7,310	7,859	8,240	3.4	4.8	3.6
SOUTH CAROLINA	2,851	2,945	2,930	2,836	2,972	3,115	3,174	1.5	1.9	1.5
VIRGINIA	6,279	6,510	7,029	7,419	7,474	7,538	7,683	3.1	1.9	2.9
WEST VIRGINIA	2,348	2,379	2,356	2,709	2,951	3,245	3,188	5.5	-1.8	4.5
EAST SOUTH CENTRAL	13,809	14,667	15,535	15,032	14,810	15,017	15,687	1.4	4.5	1.8
ALABAMA	3,097	3,530	4,058	3,847	3,778	3,896	4,007	3.9	2.8	3.7
KENTUCKY	2,766	3,065	3,253	3,212	3,369	3,450	3,552	3.8	3.0	3.6
MISSISSIPPI	2,173	2,190	2,185	2,130	2,052	2,179	2,350	*	7.8	1.1
TENNESSEE	5,773	5,882	6,039	5,843	5,611	5,492	5,778	-.8	5.2	*
WEST SOUTH CENTRAL	28,104	30,454	31,849	32,487	32,770	35,229	38,108	3.8	8.2	4.4
ARKANSAS	1,346	1,391	1,488	1,495	1,642	1,779	1,844	4.8	3.7	4.6
LOUISIANA	3,242	3,431	3,807	3,874	4,299	4,545	4,833	5.8	6.3	5.9
OKLAHOMA	3,400	3,804	3,865	4,004	3,590	3,832	4,157	2.0	8.5	2.9
TEXAS	20,116	21,828	22,689	23,114	23,239	25,073	27,274	3.7	8.8	4.4
MOUNTAIN	20,294	20,339	21,106	21,639	22,064	23,384	23,[illegible]	2.4	.8	2.2
ARIZONA	4,707	4,729	5,027	5,228	5,593	6,397	6,384	5.2	-.2	4.4
COLORADO	7,155	6,839	6,916	6,928	6,934	6,968	6,736	-.4	-3.3	-.9
IDAHO	975	1,192	951	968	913	937	1,004	-.7	7.2	.4
MONTANA	799	784	786	871	856	1,035	1,075	4.4	3.9	4.3
NEVADA	698	718	686	639	678	600	722	-2.5	20.3	.5
NEW MEXICO	2,051	2,033	2,423	2,463	2,623	2,624	2,769	4.2	5.5	4.4
UTAH	3,214	3,369	3,666	3,882	3,737	4,021	4,037	3.8	.4	3.3
WYOMING	695	675	651	660	730	802	835	2.4	4.1	2.7
PACIFIC	59,901	63,102	66,018	66,633	68,471	67,447	69,109	2.0	2.5	2.1
ALASKA	287	434	456	492	541	564	637	11.9	12.9	12.1
CALIFORNIA	48,806	51,273	53,541	53,637	55,798	55,005	56,383	2.0	2.5	2.1
HAWAII	1,496	1,543	1,453	2,004	2,012	2,053	1,965	5.4	-4.3	4.0
OREGON	3,144	3,276	3,429	3,386	3,424	3,411	3,570	1.4	4.7	1.8
WASHINGTON	6,168	6,576	7,139	7,114	6,696	6,414	6,554	.7	2.2	.9
OUTLYING AREAS	1,436	1,677	1,580	2,004	2,017	2,143	2,418	6.9	12.8	7.7

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-3. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	230,848	236,164	242,379	249,159	252,997	255,297	263,800	1.7	3.3	1.9
ENGINEERING	36,964	37,565	40,393	43,107	46,257	50,239	55,230	5.2	9.9	5.9
AEROSPACE	1,165	1,187	1,152	1,327	1,483	1,522	1,840	4.6	20.9	6.7
AGRICULTURAL	529	620	645	631	672	739	766	5.7	3.7	5.4
BIOMEDICAL	757	715	846	805	867	931	1,031	3.5	10.7	4.5
CHEMICAL	3,691	3,873	4,218	4,490	4,989	5,608	5,869	7.2	4.7	6.8
CIVIL	7,039	7,451	8,013	8,343	9,208	9,768	10,242	5.6	4.9	5.5
ELECTRICAL	8,147	8,528	9,039	9,963	10,450	11,533	13,192	6.0	14.4	7.1
ENGINEERING SCIENCE	1,140	1,120	1,061	1,148	1,220	1,277	1,364	1.9	6.8	2.6
INDUSTRIAL	3,578	3,343	3,743	3,772	3,642	3,831	4,130	1.1	7.8	2.1
MECHANICAL	4,919	4,883	5,428	5,841	6,422	7,267	8,351	6.7	14.9	7.9
METALLURGICAL/MATERIALS	1,860	1,951	2,195	2,254	2,454	2,478	2,704	4.9	9.1	5.5
MINING	411	365	298	325	389	373	428	-1.6	14.7	.6
NUCLEAR	1,222	1,159	1,075	1,043	1,032	1,042	1,052	-2.6	1.0	-2.1
PETROLEUM	323	301	337	373	393	476	620	6.7	30.3	9.8
ENGINEERING, N.E.C.	2,183	2,069	2,403	2,792	3,036	3,394	3,641	7.6	7.3	7.6
PHYSICAL SCIENCES	22,252	22,505	22,535	22,918	23,308	24,040	25,197	1.3	4.8	1.8
ASTRONOMY	629	603	614	593	565	590	585	-1.1	-.8	-1.0
CHEMISTRY	12,816	13,131	13,361	13,580	13,719	14,287	15,041	1.8	5.3	2.3
PHYSICS	8,689	8,649	8,473	8,653	8,937	9,072	9,479	.7	4.5	1.3
PHYSICAL SCIENCES, N.E.C.	118	122	87	92	87	91	92	-4.2	1.1	-3.5
ENVIRONMENTAL SCIENCES	10,219	10,556	10,724	10,969	11,038	11,436	12,051	1.9	5.4	2.4
ATMOSPHERIC SCIENCES	814	807	742	758	745	779	785	-.7	.8	-.5
GEOSCIENCES	6,291	6,495	6,769	7,010	7,029	7,521	8,203	3.0	9.1	3.9
OCEANOGRAPHY	1,503	1,540	1,511	1,568	1,622	1,593	1,612	1.0	1.2	1.0
ENVIRONMENTAL SCIENCES, N.E.C.	1,611	1,714	1,702	1,633	1,642	1,543	1,451	-.7	-6.0	-1.5
MATHEMATICAL/COMPUTER SCIENCES	15,700	14,969	15,521	16,489	17,599	19,994	21,660	4.1	8.3	4.7
COMPUTER SCIENCE	4,748	4,604	5,853	6,587	7,465	9,171	10,678	11.6	16.4	12.3
MATHEMATICS AND APPLIED MATHEMATICS	9,443	8,878	8,246	8,387	8,609	9,242	9,417	-.4	1.9	•
STATISTICS	1,509	1,487	1,422	1,515	1,545	1,581	1,565	.8	-1.0	.5
LIFE SCIENCES	66,235	68,828	71,150	72,409	72,241	70,254	70,205	1.0	-.1	.8
AGRICULTURAL SCIENCES	9,317	9,567	9,794	9,980	10,076	9,891	9,836	1.0	-.6	.8
BIOLOGICAL SCIENCES	38,087	38,603	38,218	37,928	37,582	36,989	37,186	-.5	.5	-.3
ANATOMY	1,060	1,062	1,041	990	963	937	937	-2.0	.0	-1.7
BIOCHEMISTRY	3,553	3,641	3,698	3,749	3,768	3,850	4,041	1.3	5.0	1.9
BIOLOGY	11,086	10,814	10,292	9,766	9,479	9,044	9,208	-3.3	1.8	-2.6
BIOMETRY/EPIDEMIOLOGY	751	894	967	1,045	999	919	877	3.4	-4.6	2.2
BIOPHYSICS	573	553	498	476	457	423	443	-6.9	4.7	-3.6
BOTANY	3,349	3,448	3,270	3,190	3,056	3,169	3,043	-.9	-4.0	-1.4
CELL BIOLOGY	718	777	859	932	989	1,110	1,129	7.5	1.7	6.7
ECOLOGY	797	934	837	957	939	910	844	2.2	-7.3	.8
ENTOMOLOGY/PARASITOLOGY	1,416	1,389	1,463	1,525	1,452	1,340	1,305	-.9	-2.6	-1.2
GENETICS	817	943	875	885	873	924	964	2.1	4.3	2.4
MICROBIOLOGY	3,654	3,733	3,507	3,620	3,508	3,517	3,668	-.6	4.3	.1
NUTRITION	2,554	2,855	3,020	3,024	3,188	3,120	3,015	3.4	-3.4	2.4
PATHOLOGY	941	942	1,031	1,033	1,053	1,021	1,073	1.4	5.1	1.9
PHARMACOLOGY	1,589	1,667	1,853	1,886	1,914	1,940	1,958	3.4	.9	3.0
PHYSIOLOGY	1,974	1,925	1,892	1,853	1,924	1,805	1,792	-1.5	-.7	-1.4
ZOOLOGY	2,883	2,631	2,434	2,290	2,248	2,136	2,085	-4.9	-2.4	-4.5
BIOSCIENCES, N.E.C.	372	395	681	707	772	824	804	14.2	-2.4	11.6
HEALTH SCIENCES	18,831	20,658	23,138	24,501	24,583	23,374	23,183	3.7	-.8	3.0
ANESTHESIOLOGY	5	3	18	13	16	19	27	24.9	42.1	27.2
CANCER/ONCOLOGY	67	75	61	54	53	69	73	.5	5.8	1.2
CARDIOLOGY	0	3	3	35	28	28	24	••	-14.3	••
DENTISTRY	779	807	924	888	761	727	728	-1.1	.1	-1.0
ENDOCRINOLOGY	33	31	43	48	46	50	64	7.2	28.0	9.9
GASTROENTEROLOGY	8	8	0	0	3	1	0	-29.3	-100.0	-100.0
HEMATOLOGY	3	7	14	8	9	6	9	12.2	50.0	17.0
NEUROLOGY	211	225	247	234	189	202	258	-.7	27.7	2.9
NURSING	4,027	5,584	6,336	6,483	7,137	6,612	6,204	8.6	-6.2	6.4
OBSTETRICS/GYNECOLOGY	52	25	33	5	10	15	15	-18.7	.0	-16.3
OPHTHALMOLOGY	8	9	5	15	19	8	7	.0	-12.5	-1.9
OTORHINOLARYNGOLOGY	59	44	13	14	11	11	5	-24.4	-54.5	-29.7
PEDIATRICS	143	112	119	127	145	144	138	.1	-4.2	-.5
PHARMACEUTICAL SCIENCES	1,422	1,589	1,623	1,655	1,688	1,703	1,743	3.1	2.3	3.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,294	3,064	4,324	4,538	4,473	4,056	3,956	3.5	-2.5	2.7
PSYCHIATRY	114	127	120	61	57	68	80	-8.3	17.6	-4.9
PULMONARY DISEASE	0	3	1	15	9	10	2	••	-80.0	••
RADIOLOGY	270	270	220	233	237	208	169	-4.3	-18.8	-6.5
SPEECH PATHOLOGY/AUDIOLOGY	5,279	5,363	5,168	5,584	5,394	5,444	5,404	.5	-.7	.3
SURGERY	128	104	66	85	83	87	73	-6.2	-16.1	-7.7
VETERINARY SCIENCES	342	395	435	394	372	378	363	1.7	-4.0	.9
CLINICAL MEDICINE, N.E.C.	186	255	263	343	288	359	367	11.6	2.2	10.2
HEALTH RELATED, N.E.C.	2,401	2,255	3,102	3,669	3,555	3,169	3,474	4.7	9.6	5.4
PSYCHOLOGY	25,649	25,710	25,865	26,492	26,725	25,818	26,764	.1	3.7	.6
SOCIAL SCIENCES	53,829	54,031	54,191	54,575	55,829	53,516	52,693	-.1	-1.5	-.3
AGRICULTURAL ECONOMICS	1,949	1,974	1,960	2,063	2,038	1,978	2,047	.2	3.5	.7
ANTHROPOLOGY	5,035	5,092	4,591	4,616	4,323	4,105	3,998	-3.3	-2.6	-3.2
ECONOMICS (EXCEPT AGRICULTURAL)	8,162	8,377	8,359	9,273	9,387	9,479	9,281	2.5	-2.1	1.9
GEOGRAPHY	2,410	2,228	2,060	2,247	2,233	2,139	2,202	-2.0	2.9	-1.3
HISTORY AND PHILOSOPHY OF SCIENCE	274	257	234	241	217	223	229	-3.1	2.7	-2.3
LINGUISTICS	2,190	1,938	2,270	2,260	2,265	2,157	2,375	-.3	10.1	1.1
POLITICAL SCIENCE	12,837	13,473	13,869	13,439	14,171	13,713	13,481	1.1	-1.7	.7
SOCIOLOGY	6,493	6,163	5,610	5,637	5,401	4,875	4,815	-4.6	-1.2	-4.1
SOCIOLOGY/ANTHROPOLOGY	713	714	678	645	575	657	671	-2.9	2.1	-2.2
SOCIAL SCIENCES, N.E.C.	13,732	15,715	16,560	16,154	15,219	14,190	13,594	.5	-4.2	-.1

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
• LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-4. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	113,271	122,159	130,819	133,941	138,643	143,685	149,764	4.0	4.2	4.1
ENGINEERING	29,807	31,577	31,869	31,977	34,222	34,355	37,487	2.4	9.1	3.3
AEROSPACE	312	331	329	410	400	419	568	5.0	35.6	8.9
AGRICULTURAL	110	89	95	111	130	136	203	3.6	49.3	9.1
BIOMEDICAL	189	185	205	206	190	185	213	-.4	15.1	1.7
CHEMICAL	1,514	1,328	1,387	1,525	1,507	1,581	1,694	.7	7.1	1.6
CIVIL	4,977	5,261	5,204	5,159	5,307	4,755	5,164	-.8	8.6	.5
ELECTRICAL	7,779	8,878	8,750	9,264	9,743	10,484	11,588	5.1	10.5	5.9
ENGINEERING SCIENCE	619	617	620	648	745	853	917	5.5	7.5	5.8
INDUSTRIAL	7,109	7,095	6,971	6,098	6,384	6,039	6,511	-2.7	7.8	-1.2
MECHANICAL	3,394	3,839	3,823	4,047	4,196	4,200	4,590	3.6	9.3	4.4
METALLURGICAL/MATERIALS	515	608	621	656	671	646	741	3.8	14.7	5.3
MINING	104	87	91	88	73	76	96	-5.1	26.3	-1.1
NUCLEAR	378	332	243	198	251	259	151	-6.1	-41.7	-12.3
PETROLEUM	53	78	87	130	128	110	117	12.8	6.4	12.0
ENGINEERING, N.E.C.	2,754	2,849	3,443	3,237	4,497	4,612	4,934	9.0	7.0	8.7
PHYSICAL SCIENCES	4,379	4,350	4,165	4,034	4,074	4,159	4,251	-.9	2.2	-.4
ASTRONOMY	65	46	38	35	32	42	33	-7.0	-21.4	-9.2
CHEMISTRY	2,835	2,889	2,740	2,642	2,628	2,728	2,778	-.6	1.8	-.3
PHYSICS	1,378	1,284	1,226	1,245	1,213	1,234	1,306	-1.8	5.8	-.8
PHYSICAL SCIENCES, N.E.C.	101	131	161	112	201	155	134	7.4	-13.5	4.1
ENVIRONMENTAL SCIENCES	2,815	3,102	3,130	3,239	3,384	3,738	3,574	4.8	-4.4	3.5
ATMOSPHERIC SCIENCES	103	117	110	131	137	110	111	1.1	.9	1.1
GEOSCIENCES	1,450	1,576	1,763	1,658	1,779	2,100	2,118	6.4	.9	5.6
OCEANOGRAPHY	272	417	356	424	460	498	505	10.6	1.4	9.2
ENVIRONMENTAL SCIENCES, N.E.C.	990	992	901	1,026	1,008	1,030	840	.7	-18.4	-2.3
MATHEMATICAL/COMPUTER SCIENCES	10,019	10,208	11,232	12,449	14,753	17,017	19,697	9.2	15.7	10.1
COMPUTER SCIENCE	3,879	4,504	5,837	6,991	8,992	10,641	13,165	18.3	23.7	19.1
MATHEMATICS AND APPLIED MATHEMATICS	5,603	5,175	4,863	4,932	5,323	5,903	6,070	.9	2.8	1.2
STATISTICS	537	529	532	526	438	473	462	-2.1	-2.3	-2.1
LIFE SCIENCES	21,644	26,644	28,677	30,095	30,883	32,635	33,694	7.1	3.2	6.5
AGRICULTURAL SCIENCES	1,837	1,953	2,275	2,274	2,024	2,423	2,454	4.7	1.3	4.2
BIOLOGICAL SCIENCES	9,845	10,953	10,285	9,962	9,397	9,321	9,022	-.9	-3.2	-1.2
ANATOMY	98	126	92	92	109	137	116	5.7	-15.3	2.4
BIOCHEMISTRY	317	297	336	304	293	274	230	-2.4	-16.1	-4.5
BIOLOGY	5,864	6,191	5,462	5,226	4,724	4,353	4,084	-4.8	-6.2	-5.0
BIOMETRY/EPIDEMIOLOGY	119	164	161	214	183	247	279	12.9	13.0	12.9
BIOPHYSICS	21	17	27	9	6	17	13	-3.5	-23.5	-6.6
BOTANY	451	417	388	427	442	475	407	.9	-14.3	-1.5
CELL BIOLOGY	44	48	35	33	29	33	44	-4.7	33.3	.0
ECOLOGY	127	133	227	224	162	141	163	1.8	15.6	3.6
ENTOMOLOGY/PARASITOLOGY	179	213	254	197	212	200	170	1.9	-15.0	-.7
GENETICS	90	87	95	79	64	66	71	-5.0	7.6	-3.3
MICROBIOLOGY	648	747	656	558	562	613	556	-.9	-9.3	-2.2
NUTRITION	583	961	900	1,101	1,167	1,239	1,380	13.4	11.4	13.1
PATHOLOGY	334	415	425	396	391	439	429	4.7	-2.3	3.6
PHARMACOLOGY	116	127	151	129	110	144	139	3.7	-3.5	2.6
PHYSIOLOGY	245	197	300	251	220	253	228	-.5	-9.9	-1.0
ZOOLOGY	420	445	466	396	377	367	378	-2.2	3.0	-1.5
BIOSCIENCES, N.E.C.	189	368	300	326	346	323	335	9.3	3.7	8.5
HEALTH SCIENCES	9,962	13,738	16,117	17,859	19,462	20,891	22,218	13.1	6.4	12.1
ANESTHESIOLOGY	0	2	2	4	4	19	16	**	-15.8	**
CANCER/ONCOLOGY	5	0	2	2	2	2	1	-14.2	-50.0	-20.5
CARDIOLOGY	2	2	0	3	8	31	10	57.9	-67.7	25.8
DENTISTRY	131	179	105	114	181	109	88	-3.0	-19.3	-5.5
ENDOCRINOLOGY	3	1	6	5	5	3	0	.0	-100.0	-100.0
GASTROENTEROLOGY	0	0	0	0	1	0	0	**	**	**
HEMATOLOGY	1	11	6	8	0	1	1	.0	.0	.0
NEUROLOGY	7	8	14	15	2	2	3	-18.8	50.0	-11.4
NURSING	3,228	5,359	6,460	7,394	8,566	9,642	10,741	20.0	11.4	18.7
OBSTETRICS/GYNECOLOGY	7	2	3	1	3	4	2	-8.9	-50.0	-16.4
OPHTHALMOLOGY	5	7	1	1	3	3	3	-8.2	.0	-7.0
OTORHINOLARYNGOLOGY	4	1	0	0	0	1	1	-20.6	.0	-18.0
PEDIATRICS	72	40	12	11	4	10	13	-28.0	30.0	-21.7
PHARMACEUTICAL SCIENCES	795	883	818	779	861	816	871	.4	6.7	1.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,176	1,491	2,104	2,565	2,753	2,760	2,725	15.3	-1.3	12.8
PSYCHIATRY	33	23	13	2	49	57	69	9.5	21.1	11.1
PULMONARY DISEASE	0	0	0	0	0	2	0	**	-100.0	**
RADIOLOGY	15	41	63	50	40	82	62	32.7	-24.4	22.5
SPEECH PATHOLOGY/AUDIOLOGY	2,351	2,799	3,128	3,031	3,202	3,239	3,447	5.5	6.4	5.6
SURGERY	42	50	25	24	34	25	22	-8.3	-12.0	-8.8
VETERINARY SCIENCES	86	92	100	117	109	93	103	1.3	10.8	2.6
CLINICAL MEDICINE, N.E.C.	109	224	319	450	443	424	372	25.4	-12.3	19.2
HEALTH RELATED, N.E.C.	1,890	2,523	2,936	3,283	3,192	3,566	3,668	11.2	2.9	9.9
PSYCHOLOGY	11,820	12,918	13,921	13,944	13,966	14,280	14,370	3.2	.6	2.8
SOCIAL SCIENCES	32,787	33,360	37,825	38,203	37,361	37,501	36,691	2.3	-2.2	1.6
AGRICULTURAL ECONOMICS	227	245	261	280	224	289	248	4.1	-14.2	1.3
ANTHROPOLOGY	1,587	1,636	1,752	1,706	1,795	1,843	1,695	2.5	-8.0	.9
ECONOMICS (EXCEPT AGRICULTURAL)	3,746	3,686	3,771	3,859	3,957	4,256	4,306	2.2	1.2	2.0
GEOGRAPHY	1,296	1,147	983	957	954	1,027	858	-3.8	-16.5	-5.7
HISTORY AND PHILOSOPHY OF SCIENCE	52	43	31	39	31	33	24	-7.3	-27.3	-10.5
LINGUISTICS	646	730	793	747	874	646	647	.0	.2	*
POLITICAL SCIENCE	13,225	13,726	16,866	17,773	16,630	16,194	14,794	3.4	-8.6	1.6
SOCIOLOGY	2,843	2,701	2,549	2,364	2,415	2,371	2,136	-3.0	-9.9	-4.0
SOCIOLOGY/ANTHROPOLOGY	576	584	558	561	535	476	511	-3.1	7.4	-1.7
SOCIAL SCIENCES, N.E.C.	8,589	8,862	10,261	9,917	9,956	10,366	11,472	3.2	10.7	5.2

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-5. — MALE SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1977 AND 1979-83 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1983	1977-82	1982-83	1977-83
TOTAL, ALL FIELDS	290,179	246,953	249,328	249,471	252,179	260,072	.2	3.1	.6
ENGINEERING	65,307	66,235	68,581	72,548	75,621	82,483	3.0	9.1	4.0
AEROSPACE	1,485	1,432	1,663	1,816	1,831	2,283	4.3	24.7	7.4
AGRICULTURAL	680	708	711	758	818	896	3.8	9.5	4.7
BIOMEDICAL	817	919	845	877	897	974	1.9	8.6	3.0
CHEMICAL	4,827	4,991	5,336	5,718	6,288	6,547	5.4	4.1	5.2
CIVIL	11,752	11,752	11,973	12,778	12,614	13,388	1.4	6.1	2.2
ELECTRICAL	16,696	16,856	18,244	18,917	20,446	22,837	4.2	11.6	5.4
ENGINEERING SCIENCE	1,650	1,540	1,645	1,764	1,864	1,990	2.5	6.8	3.2
INDUSTRIAL	9,683	9,463	8,520	8,466	8,216	8,721	-3.2	6.1	-1.7
MECHANICAL	8,449	8,782	9,354	9,987	10,748	12,135	4.9	12.9	6.2
METALLURGICAL/MATERIALS	2,376	2,448	2,607	2,735	2,704	2,998	2.6	10.9	4.0
MINING	434	363	385	423	409	477	-1.2	16.6	1.6
NUCLEAR	1,434	1,233	1,160	1,199	1,215	1,119	-3.3	-7.9	-4.0
PETROLEUM	565	393	462	469	544	645	8.3	22.2	10.5
ENGINEERING, N.E.C.	4,659	5,335	5,676	6,641	7,007	7,453	8.5	6.4	8.1
PHYSICAL SCIENCES	22,816	22,205	22,352	22,366	22,776	23,575	*	3.5	.5
ASTRONOMY	568	571	546	506	531	526	-1.3	-.9	-1.3
CHEMISTRY	12,936	12,683	12,718	12,544	12,855	13,305	-.1	3.5	.5
PHYSICS	9,129	8,813	8,950	9,133	9,238	9,588	.2	3.8	.8
PHYSICAL SCIENCES, N.E.C.	183	138	138	183	152	156	-3.6	2.6	-2.6
ENVIRONMENTAL SCIENCES	11,307	10,925	10,940	10,945	11,393	11,652	.2	2.3	.5
ATMOSPHERIC SCIENCES	850	757	779	758	764	766	-2.1	.3	-1.7
GEOSCIENCES	6,703	6,741	6,743	6,746	7,318	7,808	1.8	6.7	2.6
OCEANOGRAPHY	1,602	1,454	1,505	1,529	1,514	1,545	-1.1	2.0	-.6
ENVIRONMENTAL SCIENCES, N.E.C.	2,152	1,973	1,913	1,912	1,797	1,533	-3.5	-14.7	-5.8
MATHEMATICAL/COMPUTER SCIENCES	19,493	20,394	21,763	23,647	26,475	29,421	6.3	11.1	7.1
COMPUTER SCIENCE	7,549	9,367	10,491	12,228	14,366	17,151	13.7	19.4	14.7
MATHEMATICS AND APPLIED MATHEMATICS	10,432	9,578	9,778	9,969	10,641	10,844	.4	1.9	.6
STATISTICS	1,512	1,449	1,494	1,450	1,468	1,426	-.6	-2.9	-1.0
LIFE SCIENCES	53,658	51,398	51,062	49,353	47,646	46,836	-2.3	-1.7	-2.2
AGRICULTURAL SCIENCES	9,453	9,461	9,447	9,370	9,314	9,183	-.3	-1.4	-.5
BIOLOGICAL SCIENCES	32,712	30,499	29,492	28,210	27,021	26,633	-3.8	-1.4	-3.4
ANATOMY	801	724	673	683	669	643	-3.5	-3.9	-3.6
BIOCHEMISTRY	2,821	2,773	2,732	2,694	2,630	2,678	-1.4	1.8	-.9
BIOLOGY	11,352	9,991	9,347	8,651	7,873	7,677	-7.1	-2.5	-6.3
BIOMETRY/EPIDEMIOLOGY	592	593	648	656	561	547	-1.1	-2.5	-1.3
BIOPHYSICS	459	428	380	338	330	340	-6.4	3.0	-4.9
BOTANY	2,747	2,513	2,429	2,285	2,329	2,201	-3.2	-5.5	-3.6
CELL BIOLOGY	542	557	619	651	726	773	6.0	6.5	6.1
ECOLOGY	782	746	813	730	684	666	-2.6	-2.4	-2.6
ENTOMOLOGY/PARASITOLOGY	1,325	1,353	1,367	1,308	1,158	1,090	-2.7	-5.9	-3.2
GENETICS	552	508	495	470	441	512	-3.5	11.1	-1.2
MICROBIOLOGY	2,832	2,478	2,443	2,309	2,318	2,358	-3.9	1.7	-3.0
NUTRITION	1,495	1,351	1,428	1,386	1,368	1,329	-1.0	-2.9	-1.3
PATHOLOGY	899	975	922	882	872	896	-.6	2.8	-.1
PHARMACOLOGY	1,324	1,419	1,361	1,330	1,356	1,345	.5	-.8	.3
PHYSIOLOGY	1,594	1,525	1,467	1,452	1,367	1,314	-3.0	-3.9	-3.2
ZOOLOGY	2,157	1,962	1,764	1,718	1,651	1,627	-5.2	-1.5	-4.6
BIOSCIENCES, N.E.C.	498	603	603	667	668	637	6.0	-4.6	4.2
HEALTH SCIENCES	11,493	11,438	12,123	11,773	11,311	11,020	-.3	-2.6	-.7
ANESTHESIOLOGY	4	9	3	4	11	18	22.4	63.6	28.5
CANCER/ONCOLOGY	54	47	41	49	46	47	-3.2	2.2	-2.3
CARDIOLOGY	4	3	27	19	28	17	47.6	-39.3	27.3
DENTISTRY	847	840	801	716	676	639	-4.4	-5.5	-4.6
ENDOCRINOLOGY	22	30	29	25	23	33	.9	43.5	7.0
GASTROENTEROLOGY	8	0	0	3	1	0	-34.0	-100.0	-100.0
HEMATOLOGY	7	10	4	2	1	2	-32.2	100.0	-18.8
NEUROLOGY	164	178	175	131	140	189	-3.1	35.0	2.4
NURSING	426	578	649	730	717	747	11.0	4.2	9.8
OBSTETRICS/GYNECOLOGY	17	25	4	5	9	11	11.4	22.2	7.0
OPHTHALMOLOGY	12	4	9	16	8	5	-7.8	-37.5	-13.6
OTORHINOLARYNGOLOGY	29	12	13	9	11	5	-17.6	-54.5	-25.4
PEDIATRICS	48	44	32	46	71	32	8.1	-55.1	-6.5
PHARMACEUTICAL SCIENCES	1,754	1,714	1,730	1,797	1,751	1,760	*	.5	.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,469	3,090	3,415	3,385	2,986	2,933	3.9	-5.1	2.3
PSYCHIATRY	87	56	24	58	61	70	-6.9	14.8	-3.6
PULMONARY DISEASE	3	0	13	5	7	1	18.5	-85.7	-16.7
RADIOLOGY	247	230	229	217	225	185	-1.8	-17.8	-4.7
SPEECH PATHOLOGY/AUDIOLOGY	1,879	1,398	1,314	1,186	1,220	1,199	-8.3	-1.7	-7.2
SURGERY	132	84	91	99	97	76	-6.0	-21.6	-8.8
VETERINARY SCIENCES	360	380	332	304	297	289	-3.8	-2.7	-3.6
CLINICAL MEDICINE, N.E.C.	281	253	304	308	395	312	4.8	-12.1	1.8
HEALTH RELATED, N.E.C.	2,639	2,453	2,884	2,659	2,570	2,550	-.5	-.8	-.6
PSYCHOLOGY	20,520	19,427	19,036	17,902	16,980	16,702	-3.7	-1.6	-3.4
SOCIAL SCIENCES	57,078	56,249	55,594	52,710	51,288	49,403	-2.1	-3.7	-2.4
AGRICULTURAL ECONOMICS	1,928	1,827	1,874	1,791	1,804	1,807	-1.3	.2	-1.1
ANTHROPOLOGY	3,386	3,099	3,009	2,791	2,677	2,463	-4.6	-8.0	-5.2
ECONOMICS (EXCEPT AGRICULTURAL)	9,749	9,498	10,126	10,139	10,237	10,159	1.0	-.8	.7
GEOGRAPHY	2,516	2,146	2,267	2,198	2,195	2,051	-2.7	-6.6	-3.3
HISTORY AND PHILOSOPHY OF SCIENCE	215	191	189	159	167	161	-4.9	-3.6	-4.7
LINGUISTICS	1,251	1,376	1,325	1,349	1,180	1,217	-1.2	3.1	-.5
POLITICAL SCIENCE	19,795	20,540	20,340	19,255	18,631	17,409	-1.2	-6.6	-2.1
SOCIOLOGY	4,834	4,243	3,984	3,780	3,376	3,268	-4.9	-3.2	-6.3
SOCIOLOGY/ANTHROPOLOGY	900	663	648	544	553	583	-9.3	5.4	-7.0
SOCIAL SCIENCES, N.E.C.	12,504	12,786	11,932	10,704	10,468	10,285	-3.5	-1.7	-3.2

1/ DATA WERE NOT COLLECTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-6. — FEMALE SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1977 AND 1979-83 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1983	1977-82	1982-83	1977-83
TOTAL, ALL FIELDS	108,144	126,245	133,772	142,169	146,803	153,492	6.3	4.6	6.0
ENGINEERING	3,835	6,027	6,503	7,931	8,973	10,234	18.5	14.1	17.9
AEROSPACE	33	49	74	67	110	125	27.2	13.6	24.9
AGRICULTURAL	29	32	31	44	57	73	14.5	28.1	16.6
BIOMEDICAL	83	132	166	180	219	270	21.4	23.3	21.7
CHEMICAL	374	614	679	778	901	1,016	19.2	12.8	18.1
CIVIL	960	1,465	1,529	1,737	1,909	2,018	14.7	5.7	13.2
ELECTRICAL	710	933	983	1,276	1,551	1,943	16.9	25.3	18.3
ENGINEERING SCIENCE	87	141	151	201	266	251	25.0	-9.4	22.3
INDUSTRIAL	755	1,251	1,350	1,560	1,654	1,920	17.0	16.1	16.8
MECHANICAL	273	469	534	631	719	806	21.4	12.1	19.8
METALLURGICAL/MATERIALS	183	288	303	390	420	447	18.1	6.4	16.0
MINING	18	26	28	39	40	47	17.3	17.5	17.3
NUCLEAR	57	85	81	84	86	84	8.6	-2.3	6.7
PETROLEUM	14	31	41	52	42	72	24.6	71.4	31.4
ENGINEERING, N.E.C.	259	511	593	892	999	1,122	31.0	12.3	27.7
PHYSICAL SCIENCES	4,039	4,495	4,600	5,016	5,423	5,873	6.1	8.3	6.4
ASTRONOMY	81	81	82	91	101	92	4.5	-8.9	2.1
CHEMISTRY	3,084	3,418	3,504	3,803	4,160	4,514	6.2	8.5	6.6
PHYSICS	804	886	948	1,017	1,068	1,197	5.8	12.1	6.9
PHYSICAL SCIENCES, N.E.C.	70	110	66	105	94	70	6.1	-25.5	.0
ENVIRONMENTAL SCIENCES	2,951	2,929	3,268	3,477	3,781	3,973	10.0	5.1	9.1
ATMOSPHERIC SCIENCES	74	95	110	124	125	130	11.1	4.0	9.8
GEOSCIENCES	1,368	1,791	1,925	2,062	2,303	2,513	11.0	9.1	10.7
OCEANOGRAPHY	355	413	487	553	577	572	10.2	-.9	8.3
ENVIRONMENTAL SCIENCES, N.E.C.	554	630	746	738	776	758	7.0	-2.3	5.4
MATHEMATICAL/COMPUTER SCIENCES	5,684	6,359	7,175	8,705	10,536	11,936	13.1	13.3	13.2
COMPUTER SCIENCE	1,559	2,323	3,087	4,209	5,446	6,692	28.4	22.9	27.5
MATHEMATICS AND APPLIED MATHEMATICS	3,621	3,531	3,541	3,963	4,504	4,643	4.5	3.1	4.2
STATISTICS	504	505	547	533	586	601	3.1	2.6	3.0
LIFE SCIENCES	41,814	48,429	51,442	53,771	55,243	[illegible]463	5.7	3.3	5.8
AGRICULTURAL SCIENCES	2,067	2,608	2,807	2,730	3,000	3,107	7.7	3.6	7.0
BIOLOGICAL SCIENCES	16,844	18,004	18,398	18,769	19,289	19,575	2.7	1.5	2.5
ANATOMY	387	409	409	389	405	410	-.9	1.2	1.0
BIOCHEMISTRY	1,117	1,261	1,321	1,367	1,494	1,593	6.0	6.6	6.1
BIOLOGY	5,653	5,763	5,645	5,552	5,524	5,615	-.5	1.6	-.1
BIOMETRY/EPIDEMIOLOGY	466	535	611	526	605	609	5.4	.7	4.6
BIOPHYSICS	111	97	105	125	110	116	-.2	5.5	.7
BOTANY	1,118	1,145	1,188	1,213	1,315	1,249	3.3	-5.0	1.9
CELL BIOLOGY	283	337	346	367	417	400	8.1	-4.1	5.9
ECOLOGY	285	318	368	371	367	341	5.2	-7.1	3.0
ENTOMOLOGY/PARASITOLOGY	277	344	354	356	382	385	6.6	.8	5.6
GENETICS	478	462	469	467	529	523	2.0	-1.1	1.5
MICROBIOLOGY	1,648	1,685	1,735	1,761	1,812	1,866	1.9	3.0	2.1
NUTRITION	2,381	2,569	2,697	2,969	2,991	3,066	4.7	2.5	4.3
PATHOLOGY	458	481	507	562	588	606	5.1	3.1	4.8
PHARMACOLOGY	470	585	654	694	728	752	9.1	3.3	8.1
PHYSIOLOGY	528	667	637	692	691	706	5.5	2.2	5.0
ZOOLOGY	919	938	922	907	852	836	-1.5	-1.9	-1.6
BIOSCIENCES, N.E.C.	265	408	430	451	479	502	12.6	4.8	11.2
HEALTH SCIENCES	22,903	27,817	30,237	32,272	32,954	34,381	7.5	4.3	7.0
ANESTHESIOLOGY	1	11	14	16	27	25	93.3	-7.4	71.0
CANCER/ONCOLOGY	21	16	15	6	25	27	3.5	8.0	4.3
CARDIOLOGY	1	0	11	17	31	17	98.7	-45.2	60.4
DENTISTRY	139	189	201	226	160	177	2.9	10.6	4.1
ENDOCRINOLOGY	10	19	24	26	30	31	24.6	3.3	20.8
GASTROENTEROLOGY	0	0	0	1	0	0	**	**	**
HEMATOLOGY	11	10	12	7	6	8	-11.4	33.3	-5.2
NEUROLOGY	69	83	74	60	64	72	-1.5	12.5	.7
NURSING	10,517	12,218	13,228	14,973	15,537	16,198	8.1	4.3	7.5
OBSTETRICS/GYNECOLOGY	10	11	2	8	10	6	.0	-40.0	-8.2
OPHTHALMOLOGY	4	2	7	6	3	5	-5.6	66.7	3.8
OTORHINOLARYNGOLOGY	16	1	1	2	1	1	-42.6	.0	-37.0
PEDIATRICS	104	87	106	103	83	119	-4.4	43.4	2.3
PHARMACEUTICAL SCIENCES	718	727	704	752	768	854	1.4	11.2	2.9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,086	3,338	3,688	3,841	3,830	3,848	12.9	.5	10.7
PSYCHIATRY	63	77	39	48	64	79	.3	23.4	3.8
PULMONARY DISEASE	0	1	2	4	5	1	**	-80.0	**
RADIOLOGY	64	53	54	60	65	46	.3	-29.2	-5.4
SPEECH PATHOLOGY/AUDIOLOGY	6,283	6,898	7,301	7,410	7,423	7,652	3.5	2.5	3.3
SURGERY	22	7	18	18	15	19	-7.4	26.7	-2.4
VETERINARY SCIENCES	127	155	179	177	174	177	6.5	1.7	5.7
CLINICAL MEDICINE, N.E.C.	198	329	489	423	425	427	16.7	-.2	13.7
HEALTH RELATED, N.E.C.	2,439	3,585	4,068	4,088	4,165	4,592	11.3	10.3	11.1
PSYCHOLOGY	18,108	20,359	21,600	22,789	23,118	24,432	5.0	5.7	5.1
SOCIAL SCIENCES	32,313	37,647	39,184	40,480	39,729	39,981	4.2	.6	3.6
AGRICULTURAL ECONOMICS	291	394	469	471	463	488	9.7	5.4	9.0
ANTHROPOLOGY	3,342	3,244	3,313	3,327	3,271	3,230	-.4	-1.3	-.6
ECONOMICS (EXCEPT AGRICULTURAL)	2,314	2,632	3,006	3,205	3,498	3,428	8.6	-2.0	6.8
GEOGRAPHY	859	857	937	989	971	1,009	2.5	3.9	2.7
HISTORY AND PHILOSOPHY OF SCIENCE	85	74	91	89	89	92	.9	3.4	1.3
LINGUISTICS	1,417	1,687	1,682	1,790	1,623	1,805	2.8	11.2	4.1
POLITICAL SCIENCE	7,404	10,195	10,872	11,536	11,276	10,866	8.8	-3.6	6.6
SOCIOLOGY	4,030	3,916	4,017	4,036	3,870	3,683	-.8	-4.8	-1.5
SOCIOLOGY/ANTHROPOLOGY	498	573	558	566	580	599	3.1	3.3	3.1
SOCIAL SCIENCES, N.E.C.	12,073	14,035	14,239	14,471	14,088	14,781	3.1	4.9	3.4

1/ DATA WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-7. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	237,204	244,171	252,621	257,333	261,538	267,139	279,406	2.1	3.8	2.4
ENGINEERING	40,857	41,499	43,162	45,552	48,834	53,123	58,100	4.5	9.4	5.2
AEROSPACE	1,082	1,067	1,037	1,208	1,322	1,332	1,716	3.5	28.8	6.8
AGRICULTURAL	606	673	703	704	758	821	916	5.2	11.6	6.1
BIOMEDICAL	517	453	555	563	598	648	702	3.8	8.3	4.5
CHEMICAL	3,437	3,423	3,698	4,011	4,265	4,822	5,057	5.8	4.9	5.7
CIVIL	8,393	9,047	9,309	9,465	9,722	9,966	10,715	2.9	7.5	3.6
ELECTRICAL	9,067	9,744	9,745	10,455	10,977	12,329	13,686	5.3	11.0	6.1
ENGINEERING SCIENCE	1,222	1,106	958	1,060	1,184	1,260	1,387	.5	10.1	1.8
INDUSTRIAL	4,444	3,993	4,256	4,411	4,563	4,940	5,036	1.8	1.9	1.8
MECHANICAL	5,542	5,478	5,709	6,159	6,717	7,431	8,500	5.0	14.4	6.3
METALLURGICAL/MATERIALS	1,446	1,528	1,684	1,725	1,818	1,850	2,024	4.2	9.4	4.9
MINING	421	366	306	330	380	377	456	-1.8	21.0	1.1
NUCLEAR	1,164	1,085	1,000	951	993	1,018	963	-2.2	-5.4	-2.7
PETROLEUM	226	228	248	272	271	321	464	6.0	44.5	10.8
ENGINEERING, N.E.C.	3,290	3,308	3,958	4,238	5,266	6,008	6,478	10.6	7.8	10.2
PHYSICAL SCIENCES	18,571	18,770	18,738	18,915	19,263	20,117	21,003	1.3	4.4	1.8
ASTRONOMY	465	425	435	421	393	420	419	-1.7	-.2	-1.5
CHEMISTRY	11,162	11,400	11,504	11,597	11,681	12,303	12,925	1.6	5.1	2.1
PHYSICS	6,745	6,719	6,630	6,705	6,914	7,148	7,433	1.0	4.0	1.4
PHYSICAL SCIENCES, N.E.C.	199	226	169	192	275	246	226	3.6	-8.1	1.8
ENVIRONMENTAL SCIENCES	10,931	11,388	11,674	11,918	12,069	12,727	13,1[illegible]	2.6	3.2	2.7
ATMOSPHERIC SCIENCES	852	869	805	816	790	791	843	-1.2	6.6	-.2
GEOSCIENCES	6,146	6,506	6,973	7,121	7,236	7,982	8,556	4.5	7.2	4.8
OCEANOGRAPHY	1,545	1,606	1,655	1,749	1,844	1,798	1,813	2.6	.8	2.3
ENVIRONMENTAL SCIENCES, N.E.C.	2,388	2,407	2,241	2,232	2,199	2,156	1,927	-1.7	-10.6	-3.0
MATHEMATICAL/COMPUTER SCIENCES	18,498	17,555	18,204	19,223	20,841	24,067	26,748	4.5	11.1	5.4
COMPUTER SCIENCE	6,211	6,090	7,521	8,542	9,878	11,962	14,358	11.5	20.0	12.7
MATHEMATICS AND APPLIED MATHEMATICS	10,761	9,947	9,200	9,096	9,378	10,431	10,731	-.5	2.9	*
STATISTICS	1,526	1,518	1,483	1,585	1,585	1,674	1,659	1.6	-.9	1.2
LIFE SCIENCES	68,738	73,189	76,248	78,033	77,362	77,409	78,558	2.0	1.5	1.9
AGRICULTURAL SCIENCES	10,871	11,104	11,729	11,936	11,756	11,978	11,941	1.6	-.3	1.4
BIOLOGICAL SCIENCES	35,972	37,179	36,085	35,812	35,019	34,156	34,377	-.9	.6	-.6
ANATOMY	837	838	787	710	702	669	691	-3.7	3.3	-2.7
BIOCHEMISTRY	2,681	2,738	2,707	2,700	2,651	2,718	2,839	.2	4.5	.8
BIOLOGY	11,755	11,800	10,897	10,497	10,034	9,176	9,405	-4.0	2.5	-3.1
BIOMETRY/EPIDEMIOLOGY	444	589	645	750	672	632	639	6.1	1.1	5.3
BIOPHYSICS	362	341	321	288	273	250	251	-6.0	.4	-5.1
BOTANY	3,546	3,616	3,384	3,335	3,216	3,365	3,183	-.9	-5.4	-1.5
CELL BIOLOGY	481	521	568	586	598	635	645	4.7	1.6	4.3
ECOLOGY	857	1,009	959	1,093	1,006	978	926	2.2	-5.3	1.1
ENTOMOLOGY/PARASITOLOGY	1,532	1,542	1,629	1,664	1,604	1,490	1,426	-.5	-4.3	-1.0
GENETICS	644	731	694	657	643	679	713	.9	5.0	1.5
MICROBIOLOGY	3,321	3,378	3,175	3,215	3,047	3,062	3,153	-1.3	3.0	-.7
NUTRITION	2,514	3,068	3,137	3,309	3,457	3,408	3,451	5.2	1.3	4.6
PATHOLOGY	747	796	889	893	917	929	967	3.7	4.1	3.8
PHARMACOLOGY	1,161	1,185	1,336	1,332	1,355	1,418	1,408	3.4	-.7	2.8
PHYSIOLOGY	1,575	1,500	1,475	1,457	1,488	1,418	1,391	-1.7	-1.9	-1.8
ZOOLOGY	3,112	2,885	2,677	2,484	2,432	2,333	2,296	-4.7	-1.6	-4.3
BIOSCIENCES, N.E.C.	403	542	805	842	924	996	993	16.3	-.3	13.7
HEALTH SCIENCES	21,895	24,806	28,434	30,285	30,587	31,275	32,240	6.1	3.1	5.7
ANESTHESIOLOGY	5	2	14	13	15	34	26	37.6	-23.5	26.6
CANCER/ONCOLOGY	47	49	47	46	46	56	56	3.0	.0	2.5
CARDIOLOGY	2	2	1	0	0	0	0	-100.0	**	-100.0
DENTISTRY	576	639	649	674	648	611	541	1.0	-11.5	-.9
ENDOCRINOLOGY	33	32	49	53	51	53	60	8.2	13.2	8.9
GASTROENTEROLOGY	8	8	0	0	3	1	0	-29.3	-100.0	-100.0
HEMATOLOGY	3	1	10	8	6	6	7	12.2	16.7	12.9
NEUROLOGY	129	155	175	164	131	139	149	1.3	7.2	2.1
NURSING	5,777	7,591	9,166	10,086	10,816	11,501	12,121	12.2	5.4	11.2
OBSTETRICS/GYNECOLOGY	42	17	21	1	2	10	14	-21.3	40.0	-14.5
OPHTHALMOLOGY	7	13	4	11	13	8	8	2.3	.0	1.9
OTORHINOLARYNGOLOGY	47	19	11	8	7	9	5	-24.1	-44.4	-27.4
PEDIATRICS	199	130	66	84	92	99	86	-11.0	-13.1	-11.3
PHARMACEUTICAL SCIENCES	1,492	1,609	1,596	1,665	1,723	1,726	1,763	2.5	2.1	2.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,228	3,197	4,308	4,569	4,593	4,110	4,096	4.1	-.3	3.5
PSYCHIATRY	52	69	78	60	72	108	127	13.0	17.6	13.6
PULMONARY DISEASE	0	3	1	7	7	12	2	**	-83.3	**
RADIOLOGY	180	215	220	216	179	211	190	2.7	-10.0	.8
SPEECH PATHOLOGY/AUDIOLOGY	6,512	7,005	7,010	7,266	7,299	7,474	7,582	2.3	1.4	2.2
SURGERY	132	114	71	83	71	90	68	-6.2	-24.4	-9.0
VETERINARY SCIENCES	348	407	461	445	410	406	401	2.6	-1.2	2.0
CLINICAL MEDICINE, N.E.C.	251	445	505	539	495	477	439	11.3	-8.0	8.3
HEALTH RELATED, N.E.C.	2,825	3,084	3,971	4,287	3,908	4,134	4,499	6.6	8.8	6.9
PSYCHOLOGY	23,440	24,072	23,988	23,781	23,865	23,392	24,170	*	3.3	.4
SOCIAL SCIENCES	56,169	57,798	60,601	59,911	59,304	58,304	57,688	.6	-1.1	.4
AGRICULTURAL ECONOMICS	2,096	2,140	2,121	2,216	2,160	2,171	2,204	.6	1.5	.7
ANTHROPOLOGY	4,924	4,990	4,769	4,650	4,442	4,293	4,110	-2.3	-4.3	-2.5
ECONOMICS (EXCEPT AGRICULTURAL)	7,594	7,601	7,505	7,995	8,022	8,444	8,272	1.8	-2.0	1.2
GEOGRAPHY	3,420	3,099	2,784	2,916	2,911	2,933	2,840	-2.5	-3.2	-2.6
HISTORY AND PHILOSOPHY OF SCIENCE	164	163	148	165	141	148	141	-1.7	-4.7	-2.1
LINGUISTICS	1,712	1,663	1,779	1,806	1,969	1,963	2,095	2.3	6.7	2.9
POLITICAL SCIENCE	14,911	15,344	17,008	17,364	17,450	16,841	16,151	2.0	-4.1	1.1
SOCIOLOGY	6,386	6,222	5,774	5,574	5,461	5,168	5,029	-3.5	-2.7	-3.4
SOCIOLOGY/ANTHROPOLOGY	914	864	723	722	634	638	610	-5.8	-4.4	-5.6
SOCIAL SCIENCES, N.E.C.	14,048	15,712	17,990	16,503	16,114	15,705	16,234	1.9	3.4	2.1

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-8. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	106,915	114,152	120,577	125,767	130,102	129,843	134,158	3.3	3.3	3.3
ENGINEERING	25,914	27,643	29,094	29,532	31,645	31,471	34,617	3.3	10.0	4.2
AEROSPACE	395	451	444	529	561	609	692	7.5	13.6	8.3
AGRICULTURAL	33	36	37	38	44	54	53	8.6	-1.9	7.0
BIOMEDICAL	429	447	496	448	459	468	542	1.5	15.8	3.4
CHEMICAL	1,768	1,774	1,907	2,004	2,231	2,367	2,506	5.0	5.9	5.1
CIVIL	3,623	3,665	3,908	4,037	4,793	4,557	4,691	3.9	2.9	3.8
ELECTRICAL	6,859	7,662	8,044	8,772	9,216	9,688	11,094	5.9	14.5	7.1
ENGINEERING SCIENCE	537	631	723	736	781	870	894	8.4	2.8	7.6
INDUSTRIAL	6,243	6,445	6,458	5,459	5,463	4,930	5,605	-3.9	13.7	-1.5
MECHANICAL	2,771	3,244	3,542	3,729	3,901	4,036	4,441	6.5	10.0	7.0
METALLURGICAL/MATERIALS	929	1,031	1,070	1,185	1,307	1,274	1,421	5.4	11.5	6.3
MINING	94	86	83	83	82	72	68	-4.3	-5.6	-4.5
NUCLEAR	436	406	318	290	290	283	240	-6.9	-15.2	-8.2
PETROLEUM	150	151	176	231	250	265	273	9.9	3.0	8.9
ENGINEERING, N.E.C.	1,647	1,610	1,888	1,991	2,267	1,998	2,097	3.3	5.0	3.5
PHYSICAL SCIENCES	8,060	8,085	7,962	8,037	8,119	8,082	8,445	*	4.5	.7
ASTRONOMY	229	224	217	207	204	212	199	-1.3	-6.1	-2.0
CHEMISTRY	4,489	4,620	4,597	4,625	4,666	4,712	4,894	.8	3.9	1.2
PHYSICS	3,322	3,214	3,069	3,193	3,236	3,158	3,352	-.8	6.1	.1
PHYSICAL SCIENCES, N.E.C.	20	27	79	12	13	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES	2,103	2,270	2,180	2,290	2,353	2,447	2,486	2.6	1.6	2.4
ATMOSPHERIC SCIENCES	65	55	47	73	92	98	53	7.1	-45.9	-2.9
GEOSCIENCES	1,595	1,565	1,559	1,547	1,572	1,639	1,765	.5	7.7	1.5
OCEANOGRAPHY	230	351	212	243	238	293	304	4.1	3.8	4.1
ENVIRONMENTAL SCIENCES, N.E.C.	213	299	362	427	451	417	364	11.8	-12.7	8.0
MATHEMATICAL/COMPUTER SCIENCES	7,221	7,622	8,549	9,715	11,511	12,944	14,609	10.2	12.9	10.6
COMPUTER SCIENCE	2,416	3,018	4,169	5,036	6,559	7,850	9,485	21.7	20.8	21.6
MATHEMATICS AND APPLIED MATHEMATICS	4,285	4,106	3,909	4,223	4,554	4,714	4,756	1.6	.9	1.5
STATISTICS	520	498	471	456	398	380	368	-5.1	-3.2	-4.8
LIFE SCIENCES	19,141	22,383	23,579	24,471	25,762	25,480	25,341	4.9	-.5	4.1
AGRICULTURAL SCIENCES	283	316	340	318	344	336	349	2.9	3.9	3.0
BIOLOGICAL SCIENCES	11,960	12,477	12,418	12,078	11,960	12,154	11,831	.3	-2.7	-.2
ANATOMY	321	350	346	372	370	406	362	4.0	-10.6	1.7
BIOCHEMISTRY	1,189	1,200	1,327	1,353	1,410	1,406	1,432	2.8	1.8	2.7
BIOLOGY	5,195	5,205	4,857	4,495	4,169	4,221	3,887	-3.4	-7.9	-4.1
BIOMETRY/EPIDEMIOLOGY	426	469	483	509	510	534	517	3.8	-3.2	2.8
BIOPHYSICS	232	229	204	197	190	190	205	-3.3	7.9	-1.8
BOTANY	254	249	274	282	282	279	267	1.6	-4.3	.7
CELL BIOLOGY	281	304	326	379	420	508	528	10.4	3.9	9.4
ECOLOGY	67	58	105	88	95	73	81	1.4	11.0	2.7
ENTOMOLOGY/PARASITOLOGY	63	60	68	58	60	50	49	-3.8	-2.0	-3.5
GENETICS	263	299	276	307	294	311	322	2.8	3.5	2.9
MICROBIOLOGY	981	1,102	988	963	1,023	1,068	1,071	1.4	.3	1.3
NUTRITION	623	748	783	816	898	951	944	7.3	-.7	6.1
PATHOLOGY	528	561	567	536	527	531	535	.1	.8	.2
PHARMACOLOGY	544	609	668	683	669	666	689	3.4	3.5	3.4
PHYSIOLOGY	644	622	717	647	656	640	629	-.1	-1.7	-.3
ZOOLOGY	191	191	223	202	193	170	167	-1.9	-1.8	-1.9
BIOSCIENCES, N.E.C.	158	221	206	191	194	151	146	-.8	-3.3	-1.1
HEALTH SCIENCES	6,898	9,590	10,821	12,075	13,458	12,990	13,161	11.1	1.3	9.7
ANESTHESIOLOGY	0	3	6	4	5	4	17	**	325.0	**
CANCER/ONCOLOGY	25	26	16	10	9	15	18	-8.2	20.0	-4.6
CARDIOLOGY	0	3	2	38	36	59	34	**	-42.4	**
DENTISTRY	334	347	380	328	294	225	275	-6.4	22.2	-2.7
ENDOCRINOLOGY	3	0	0	0	0	0	4	-100.0	**	4.2
GASTROENTEROLOGY	0	0	0	0	1	0	0	**	**	**
HEMATOLOGY	1	17	10	8	3	1	3	.0	200.0	17.0
NEUROLOGY	89	78	86	85	60	65	112	-5.1	72.3	3.3
NURSING	1,478	3,352	1,630	3,791	4,887	4,753	4,824	21.5	1.5	18.4
OBSTETRICS/GYNECOLOGY	17	10	15	5	11	9	3	-10.1	-66.7	-21.9
OPHTHALMOLOGY	6	3	2	5	9	3	2	-10.9	-33.3	-14.5
OTORHINOLARYNGOLOGY	16	26	2	6	4	3	1	-24.3	-66.7	-32.7
PEDIATRICS	16	22	65	54	57	55	65	22.8	18.2	22.2
PHARMACEUTICAL SCIENCES	725	863	845	769	826	793	851	1.5	7.3	2.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,242	1,358	2,120	2,534	2,633	2,706	2,585	13.9	-4.5	11.0
PSYCHIATRY	95	81	55	3	34	17	22	-24.9	29.4	-18.9
PULMONARY DISEASE	0	0	0	8	2	0	0	**	**	**
RADIOLOGY	105	96	63	67	98	79	41	-4.6	-48.1	-12.6
SPEECH PATHOLOGY/AUDIOLOGY	1,118	1,157	1,286	1,349	1,297	1,209	1,269	1.3	5.0	1.8
SURGERY	38	40	20	26	46	22	27	-8.7	22.7	-4.8
VETERINARY SCIENCES	80	80	74	66	71	65	65	-3.4	.0	-2.9
CLINICAL MEDICINE, N.E.C.	44	34	77	254	236	306	300	38.2	-2.0	31.6
HEALTH RELATED, N.E.C.	1,466	1,994	2,067	2,665	2,839	2,601	2,643	10.0	1.6	8.8
PSYCHOLOGY	14,029	14,556	15,798	16,855	16,826	16,706	16,964	3.0	1.5	2.8
SOCIAL SCIENCES	30,447	31,593	33,415	34,867	33,886	32,713	31,726	1.2	-3.1	.6
AGRICULTURAL ECONOMICS	80	79	100	127	102	96	91	3.1	-5.2	1.9
ANTHROPOLOGY	1,698	1,738	1,574	1,672	1,676	1,655	1,583	-.4	-4.4	-1.0
ECONOMICS (EXCEPT AGRICULTURAL)	4,314	4,462	4,625	5,137	5,322	5,291	5,315	3.5	.5	3.0
GEOGRAPHY	286	276	259	288	276	233	220	-3.4	-5.6	-3.7
HISTORY AND PHILOSOPHY OF SCIENCE	158	137	117	115	107	108	112	-6.1	3.7	-4.8
LINGUISTICS	1,132	1,005	1,284	1,201	1,170	840	927	-4.9	10.4	-2.8
POLITICAL SCIENCE	11,151	11,855	13,727	13,848	13,341	13,066	12,124	2.7	-7.2	1.2
SOCIOLOGY	2,910	2,642	2,385	2,427	2,355	2,078	1,922	-5.5	-7.5	-5.8
SOCIOLOGY/ANTHROPOLOGY	445	534	513	484	476	495	572	1.8	15.6	3.7
SOCIAL SCIENCES, N.E.C.	8,273	8,865	8,831	9,568	9,061	8,851	8,830	1.1	-.2	.9

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-9. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-83

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME					PART TIME 1/				
	NUMBER				PERCENT CHANGE, 1982-83	NUMBER				PERCENT CHANGE, 1982-83
	1980	1981	1982	1983		1980	1981	1982	1983	
TOTAL, ALL AREAS:	249,159	252,997	255,297	263,800	3.3	133,941	138,643	143,685	149,764	4.2
TOTAL US CITIZENS	198,429	198,015	197,374	201,003	1.8	-	-	133,190	138,175	3.7
BLACK, NON-HISPANIC	6,607	6,344	7,225	7,476	3.5	5,020	4,800	6,100	7,011	14.9
AMERICAN INDIAN/ALASKAN NATIVE	661	916	712	801	12.5	254	231	464	445	-4.1
ASIAN/PACIFIC ISLANDER	5,394	4,925	5,657	6,476	14.5	2,830	2,862	3,678	4,198	14.1
HISPANIC	4,922	4,521	5,496	6,557	19.3	2,490	2,761	3,830	4,685	22.3
WHITE, NON-HISPANIC	149,481	141,674	159,171	168,039	5.6	79,174	77,741	102,410	108,877	6.3
OTHER OR UNKNOWN	31,364	40,035	19,113	11,654	-39.0	-	-	16,708	12,959	-22.4
FOREIGN	50,730	54,982	57,923	62,797	8.4	-	-	10,495	11,589	10.4
TOTAL, ENGINEERING:	43,107	46,257	50,239	55,230	9.9	31,977	34,222	34,355	37,487	9.1
TOTAL US CITIZENS	25,108	26,443	28,816	32,181	11.7	-	-	30,569	32,825	7.4
BLACK, NON-HISPANIC	472	425	519	668	28.7	458	485	425	751	20.2
AMERICAN INDIAN/ALASKAN NATIVE	26	66	76	101	32.9	49	43	95	84	-11.6
ASIAN/PACIFIC ISLANDER	1,906	1,118	1,419	1,770	24.7	1,204	1,116	1,328	1,643	23.7
HISPANIC	572	492	601	790	31.4	512	449	500	708	41.6
WHITE, NON-HISPANIC	18,603	18,411	21,677	25,218	16.3	18,371	18,858	21,699	24,533	13.1
OTHER OR UNKNOWN	3,929	5,931	4,524	3,634	-19.7	-	-	6,322	5,106	-19.2
FOREIGN	17,999	19,814	21,423	23,049	7.6	-	-	3,786	4,662	23.1
TOTAL, SCIENCES:	206,052	206,740	205,058	208,570	1.7	101,964	104,421	109,330	112,277	2.7
TOTAL US CITIZENS	173,321	171,572	168,558	168,822	.2	-	-	102,621	105,350	2.7
BLACK, NON-HISPANIC	6,135	5,919	6,706	6,808	1.5	4,562	4,345	5,475	6,260	14.3
AMERICAN INDIAN/ALASKAN NATIVE	635	450	636	700	10.1	205	188	369	361	-2.2
ASIAN/PACIFIC ISLANDER	3,888	3,807	4,238	4,706	11.0	1,626	1,746	2,350	2,555	8.7
HISPANIC	4,350	4,029	4,895	5,767	17.8	1,978	2,312	3,330	3,977	19.4
WHITE, NON-HISPANIC	130,878	123,263	137,494	142,821	3.9	60,803	58,883	80,711	84,344	4.5
OTHER OR UNKNOWN	27,435	34,104	14,581	8,020	-45.0	-	-	10,386	7,853	-24.4
FOREIGN	32,731	35,168	36,500	39,748	8.9	-	-	6,709	6,927	3.2
TOTAL, PHYSICAL SCIENCES:	22,918	23,308	24,240	25,197	4.8	4,034	4,074	4,159	4,251	2.2
TOTAL US CITIZENS	17,174	17,037	17,355	17,978	2.4	-	-	3,699	3,822	3.3
BLACK, NON-HISPANIC	323	328	418	412	-1.4	96	107	125	162	20.0
AMERICAN INDIAN/ALASKAN NATIVE	13	15	32	40	25.0	1	4	18	5	-72.2
ASIAN/PACIFIC ISLANDER	513	485	532	589	10.7	113	138	165	159	-3.6
HISPANIC	305	324	387	486	25.6	65	49	109	113	3.7
WHITE, NON-HISPANIC	13,919	13,549	14,742	15,439	4.7	2,404	2,307	2,947	3,177	7.8
OTHER OR UNKNOWN	2,101	2,336	1,444	1,012	-29.9	-	-	325	206	-36.6
FOREIGN	5,744	6,271	6,485	7,219	11.3	-	-	460	429	-6.7
TOTAL, ENVIRONMENTAL SCIENCES:	10,969	11,038	11,436	12,051	5.4	3,239	3,384	3,738	3,574	-4.4
TOTAL US CITIZENS	9,570	9,534	9,789	10,374	6.0	-	-	3,501	3,397	-3.0
BLACK, NON-HISPANIC	66	71	76	82	7.9	38	31	27	29	7.4
AMERICAN INDIAN/ALASKAN NATIVE	38	10	17	24	41.2	0	5	5	3	-40.0
ASIAN/PACIFIC ISLANDER	143	101	136	158	16.2	27	25	72	85	18.1
HISPANIC	115	130	132	144	9.1	34	24	59	81	37.3
WHITE, NON-HISPANIC	7,823	7,114	8,388	9,262	10.4	2,230	2,069	3,005	3,077	2.4
OTHER OR UNKNOWN	1,685	2,108	1,040	704	-32.3	-	-	333	122	-63.4
FOREIGN	1,399	1,504	1,647	1,677	1.8	-	-	237	177	-25.3
TOTAL, MATHEMATICAL/COMPUTER SCIENCES:	16,489	17,599	19,994	21,660	8.3	12,449	14,753	17,017	19,697	15.7
TOTAL US CITIZENS	11,169	11,400	12,916	13,427	4.0	-	-	15,191	17,278	13.7
BLACK, NON-HISPANIC	208	241	372	371	-.3	285	325	513	600	17.0
AMERICAN INDIAN/ALASKAN NATIVE	32	8	35	23	-34.3	17	4	38	32	-15.8
ASIAN/PACIFIC ISLANDER	405	510	643	895	39.0	488	513	719	818	13.8
HISPANIC	182	216	279	310	11.1	108	149	260	305	17.3
WHITE, NON-HISPANIC	7,835	8,221	9,910	10,648	7.4	6,792	7,087	11,822	13,399	13.3
OTHER OR UNKNOWN	2,507	2,204	1,657	1,180	-28.8	-	-	1,839	2,124	15.5
FOREIGN	5,320	6,199	7,078	8,233	16.3	-	-	1,826	2,419	32.5

CONTINUED ON NEXT PAGE

TABLE B-9. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-83

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AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME					PART TIME 1/				
	NUMBER				PERCENT CHANGE, 1982-83	NUMBER				PERCENT CHANGE, 1982-83
	1980	1981	1982	1983		1980	1981	1982	1983	
TOTAL, AGRICULTURAL SCIENCES:	9,980	10,076	9,891	9,836	-0.6	2,274	2,024	2,423	2,454	1.3
TOTAL US CITIZENS	7,754	7,701	7,508	7,368	-1.9	-	-	2,206	2,230	1.1
BLACK, NON-HISPANIC	91	92	123	112	-8.9	17	34	22	21	-4.5
AMERICAN INDIAN/ALASKAN NATIVE	19	9	12	20	66.7	0	4	13	12	-7.7
ASIAN/PACIFIC ISLANDER	125	97	117	113	-3.4	20	25	21	20	-4.8
HISPANIC	221	134	164	182	11.0	64	34	46	41	-10.9
WHITE, NON-HISPANIC	6,269	6,328	6,556	6,690	2.0	1,443	1,381	1,948	1,977	1.5
OTHER OR UNKNOWN	1,029	1,041	536	251	-53.2	-	-	156	159	1.9
FOREIGN	2,226	2,375	2,383	2,468	3.6	-	-	217	224	3.2
TOTAL, BIOLOGICAL SCIENCES:	37,928	37,582	36,989	37,186	.5	9,962	9,397	9,321	9,022	-3.2
TOTAL US CITIZENS	33,340	32,727	31,950	31,645	-1.0	-	-	8,742	8,467	-3.1
BLACK, NON-HISPANIC	715	652	784	841	7.3	267	267	344	334	-2.9
AMERICAN INDIAN/ALASKAN NATIVE	48	33	67	90	34.3	8	7	25	31	24.0
ASIAN/PACIFIC ISLANDER	937	805	906	1,030	13.7	178	157	225	250	11.1
HISPANIC	609	457	618	740	19.7	159	129	192	195	1.6
WHITE, NON-HISPANIC	27,047	25,470	27,761	28,041	1.0	6,633	5,894	7,082	7,044	-.5
OTHER OR UNKNOWN	3,984	3,310	1,814	903	-50.2	-	-	874	613	-29.9
FOREIGN	4,588	4,855	5,039	5,541	10.0	-	-	579	555	-4.1
TOTAL, HEALTH SCIENCES:	24,501	24,583	23,374	23,183	-.8	17,859	19,462	20,891	22,218	6.4
TOTAL US CITIZENS	22,449	22,429	21,064	20,762	-1.4	-	-	20,158	21,563	7.0
BLACK, NON-HISPANIC	827	698	790	782	-1.0	794	702	878	1,180	34.4
AMERICAN INDIAN/ALASKAN NATIVE	105	85	112	112	.0	60	35	58	80	37.9
ASIAN/PACIFIC ISLANDER	582	489	599	555	-7.3	259	257	357	411	15.1
HISPANIC	621	384	556	885	59.2	298	264	365	578	58.4
WHITE, NON-HISPANIC	17,400	15,942	17,563	17,848	1.6	12,400	12,486	17,314	18,504	6.9
OTHER OR UNKNOWN	2,914	4,829	1,444	580	-59.8	-	-	1,186	808	-31.9
FOREIGN	2,052	2,154	2,310	2,421	4.8	-	-	733	655	-10.6
TOTAL, PSYCHOLOGY:	26,692	26,725	25,818	26,764	3.7	13,944	13,966	14,280	14,370	.6
TOTAL US CITIZENS	25,482	25,721	24,739	25,673	3.8	-	-	13,965	14,030	.5
BLACK, NON-HISPANIC	1,017	983	1,021	1,146	12.2	401	467	622	771	24.0
AMERICAN INDIAN/ALASKAN NATIVE	185	48	78	116	48.7	48	45	61	44	-27.9
ASIAN/PACIFIC ISLANDER	302	328	319	369	15.7	70	78	122	164	34.4
HISPANIC	971	955	1,032	1,145	10.9	327	276	439	684	55.8
WHITE, NON-HISPANIC	17,612	16,001	19,198	21,383	11.4	7,124	7,496	11,123	11,347	2.0
OTHER OR UNKNOWN	5,395	7,406	3,091	1,514	-51.0	-	-	1,598	1,020	-36.2
FOREIGN	1,210	1,004	1,079	1,091	1.1	-	-	315	340	7.9
TOTAL, SOCIAL SCIENCES:	56,575	55,829	53,516	52,693	-1.5	38,203	37,361	37,501	36,691	-2.2
TOTAL US CITIZENS	46,383	45,023	43,037	41,595	-3.4	-	-	35,159	34,563	-1.7
BLACK, NON-HISPANIC	2,888	2,854	3,122	3,062	-1.9	2,664	2,412	2,934	3,163	7.8
AMERICAN INDIAN/ALASKAN NATIVE	195	242	283	275	-2.8	71	84	151	154	2.0
ASIAN/PACIFIC ISLANDER	881	992	966	997	3.2	471	553	669	648	-3.1
HISPANIC	1,326	1,427	1,727	1,875	8.6	923	1,387	1,860	1,980	6.5
WHITE, NON-HISPANIC	33,273	30,638	33,376	33,510	.4	21,777	20,163	25,470	25,817	1.4
OTHER OR UNKNOWN	7,820	8,870	3,563	1,876	-47.3	-	-	4,075	2,801	-31.3
FOREIGN	10,192	10,806	10,479	11,098	5.9	-	-	2,342	2,128	-9.1

1/ FOR PART TIME STUDENTS, DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED PRIOR TO 1982.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-10. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979–83

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979–82	1982–83
TOTAL, ALL AREAS:							
TOTAL, ALL SOURCES	242,379	249,159	252,997	255,297	263,800	1.7	3.3
FEDERAL, TOTAL	54,450	54,518	52,130	48,483	48,611	-3.8	.3
DEPT OF DEFENSE	5,038	5,286	5,696	5,964	7,044	5.8	18.1
DEPT OF HHS, TOTAL	23,276	19,955	18,387	16,391	15,286	-11.0	-6.7
NIH	11,831	11,769	11,441	11,019	10,973	-2.3	-.4
OTHER HHS	11,445	8,186	6,946	5,372	4,313	-22.3	-19.7
NSF	9,376	9,352	9,182	9,294	9,537	-.3	2.6
ALL OTHER FEDERAL	16,760	19,925	18,865	16,834	16,744	.1	-.5
INSTITUTIONAL SUPPORT	86,678	90,514	94,035	97,486	101,122	4.0	3.7
OTHER OUTSIDE SUPPORT, TOTAL	20,995	21,846	23,211	24,511	25,332	5.3	3.3
ALL OTHER U.S.	13,158	13,498	14,297	15,367	16,282	5.3	6.0
FOREIGN	7,837	8,348	8,914	9,144	9,050	5.3	-1.0
SELF-SUPPORT	80,256	82,281	83,621	84,817	88,735	1.9	4.6
ENGINEERING:							
TOTAL, ALL SOURCES	40,393	43,107	46,257	50,239	55,230	7.5	9.9
FEDERAL, TOTAL	10,811	11,191	10,974	11,095	12,008	.9	8.2
DEPT OF DEFENSE	2,654	2,858	3,160	3,455	4,009	9.1	16.0
DEPT OF HHS, TOTAL	1,048	665	549	505	575	-21.6	13.9
NIH	513	508	446	403	477	-7.7	18.4
OTHER HHS	535	157	103	102	98	-42.4	-3.9
NSF	2,412	2,411	2,368	2,573	2,682	2.2	4.2
ALL OTHER FEDERAL	4,697	5,257	4,897	4,562	4,742	-1.0	3.9
INSTITUTIONAL SUPPORT	11,787	12,860	14,366	15,569	16,633	9.7	6.8
OTHER OUTSIDE SUPPORT, TOTAL	5,691	6,302	7,152	7,856	8,233	11.3	4.8
ALL OTHER U.S.	3,669	4,206	4,895	5,339	5,787	13.3	8.4
FOREIGN	2,022	2,096	2,257	2,517	2,446	7.6	-2.8
SELF-SUPPORT	12,104	12,754	13,765	15,719	18,356	9.1	16.8
PHYSICAL SCIENCES:							
TOTAL, ALL SOURCES	22,535	22,918	23,308	24,040	25,197	2.2	4.8
FEDERAL, TOTAL	7,496	7,707	7,956	7,713	8,125	1.0	5.3
DEPT OF DEFENSE	645	661	753	707	831	3.1	17.5
DEPT OF HHS, TOTAL	1,609	1,650	1,539	1,518	1,535	-1.9	1.1
NIH	1,437	1,556	1,432	1,435	1,437	*	.1
OTHER HHS	172	94	107	83	98	-21.6	18.1
NSF	2,976	2,887	3,036	3,114	3,215	1.5	3.2
ALL OTHER FEDERAL	2,266	2,509	2,628	2,374	2,544	1.4	7.2
INSTITUTIONAL SUPPORT	11,913	12,346	12,332	13,001	13,610	3.0	4.7
OTHER OUTSIDE SUPPORT, TOTAL	1,516	1,342	1,471	1,785	1,694	5.6	-5.1
ALL OTHER U.S.	1,114	975	1,097	1,330	1,227	6.1	-7.7
FOREIGN	402	367	374	455	467	4.2	2.6
SELF-SUPPORT	1,610	1,523	1,549	1,541	1,768	-1.4	14.7
ENVIRONMENTAL SCIENCES:							
TOTAL, ALL SOURCES	10,724	10,969	11,038	11,436	12,051	2.2	5.4
FEDERAL, TOTAL	3,523	3,442	3,010	2,854	2,882	-6.8	1.0
DEPT OF DEFENSE	328	296	310	300	365	-2.9	21.7
DEPT OF HH., TOTAL	287	121	99	77	52	-35.5	-32.5
NIH	31	34	20	42	25	10.7	-40.5
OTHER HHS	256	87	79	35	27	-48.5	-22.9
NSF	1,283	1,256	1,206	1,192	1,303	-2.4	11.0
ALL OTHER FEDERAL	1,625	1,769	1,395	1,285	1,142	-7.5	-11.1
INSTITUTIONAL SUPPORT	3,672	3,823	4,058	4,254	4,258	5.0	.1
OTHER OUTSIDE SUPPORT, TOTAL	898	1,089	1,173	1,220	1,293	10.8	6.0
ALL OTHER U.S.	563	722	790	856	982	15.0	14.7
FOREIGN	335	367	383	364	311	2.8	-14.6
SELF-SUPPORT	2,631	2,615	2,797	3,108	3,618	5.7	16.4
MATHEMATICAL/COMPUTER SCIENCES:							
TOTAL, ALL SOURCES	15,521	16,489	17,599	19,994	21,660	8.8	8.3
FEDERAL, TOTAL	1,654	1,821	1,804	1,893	1,892	4.6	-.1
DEPT OF DEFENSE	608	627	737	761	787	7.8	3.4
DEPT OF HHS, TOTAL	146	130	85	86	70	-16.2	-18.6
NIH	102	100	72	67	54	-13.1	-19.4
OTHER HHS	44	30	13	19	16	-24.4	-15.8
NSF	586	595	606	617	609	1.7	-1.3
ALL OTHER FEDERAL	314	469	376	429	426	11.0	-.7
INSTITUTIONAL SUPPORT	8,339	8,674	9,123	9,883	10,723	5.8	8.5
OTHER OUTSIDE SUPPORT, TOTAL	1,100	1,159	1,189	1,343	1,345	6.9	.1
ALL OTHER U.S.	609	656	623	764	750	7.9	-1.8
FOREIGN	491	503	566	579	595	5.6	2.8
SELF-SUPPORT	4,428	4,835	5,483	6,875	7,700	15.8	12.0

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TABLE B-10. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-83

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
AGRICULTURAL SCIENCES:							
TOTAL, ALL SOURCES	9,794	9,980	10,076	9,891	9,836	.3	-0.6
FEDERAL, TOTAL	1,783	1,821	1,732	1,671	1,545	-2.1	-7.5
DEPT OF DEFENSE	16	11	11	8	15	-20.6	87.5
DEPT OF HHS, TOTAL	107	124	59	38	25	-29.2	-34.2
NIH	72	110	53	33	19	-22.9	-42.4
OTHER HHS	35	14	6	5	6	-47.7	20.0
NSF	76	85	70	72	67	-1.8	-6.9
ALL OTHER FEDERAL	1,584	1,601	1,592	1,553	1,438	-.7	-7.4
INSTITUTIONAL SUPPORT	3,456	3,402	3,487	3,514	3,645	.6	3.7
OTHER OUTSIDE SUPPORT, TOTAL	1,832	2,070	2,161	2,046	2,111	3.8	3.2
ALL OTHER U.S.	819	943	950	884	949	2.6	7.4
FOREIGN	1,013	1,127	1,211	1,162	1,162	4.7	.0
SELF-SUPPORT	2,723	2,687	2,696	2,660	2,535	-.8	-4.7
BIOLOGICAL SCIENCES:							
TOTAL, ALL SOURCES	38,218	37,928	37,582	36,989	37,186	-1.1	.5
FEDERAL, TOTAL	11,084	10,922	10,757	10,270	10,391	-2.5	1.2
DEPT OF DEFENSE	125	162	122	123	243	-.5	97.6
DEPT OF HHS, TOTAL	7,665	7,322	7,273	7,004	7,166	-3.0	2.3
NIH	7,096	6,913	6,878	6,680	6,856	-2.0	2.6
OTHER HHS	569	409	395	324	310	-17.1	-4.3
NSF	1,192	1,211	1,156	1,131	1,072	-1.7	-5.2
ALL OTHER FEDERAL	2,102	2,227	2,206	2,012	1,910	-1.4	-5.1
INSTITUTIONAL SUPPORT	15,927	16,380	16,523	16,610	16,772	1.4	1.0
OTHER OUTSIDE SUPPORT, TOTAL	2,959	2,827	2,820	3,132	3,242	1.9	3.5
ALL OTHER U.S.	1,843	1,807	1,713	2,019	2,088	3.1	3.4
FOREIGN	1,116	1,020	1,107	1,113	1,154	-.1	3.7
SELF-SUPPORT	8,248	7,799	7,482	6,977	6,781	-5.4	-2.8
HEALTH SCIENCES:							
TOTAL, ALL SOURCES	23,138	24,501	24,583	23,374	23,183	.3	-.8
FEDERAL, TOTAL	8,373	8,574	7,987	6,448	5,762	-8.3	-10.6
DEPT OF DEFENSE	189	172	186	196	260	1.2	32.7
DEPT OF HHS, TOTAL	7,422	6,388	5,762	4,867	4,218	-13.1	-13.3
NIH	926	914	1,073	1,261	1,183	10.8	-6.2
OTHER HHS	6,496	5,474	4,689	3,606	3,035	-17.8	-15.8
NSF	46	71	28	34	29	-9.6	-14.7
ALL OTHER FEDERAL	716	1,943	2,011	1,351	1,255	23.6	-7.1
INSTITUTIONAL SUPPORT	4,249	4,748	4,587	5,013	5,125	5.7	2.2
OTHER OUTSIDE SUPPORT, TOTAL	1,315	1,258	1,304	1,356	1,633	1.0	20.4
ALL OTHER U.S.	824	768	864	912	1,149	3.4	26.0
FOREIGN	491	490	440	444	484	-3.3	9.0
SELF-SUPPORT	9,201	9,921	10,705	10,557	10,663	4.7	1.0
PSYCHOLOGY:							
TOTAL, ALL SOURCES	25,865	26,692	26,725	25,818	26,764	-.1	3.7
FEDERAL, TOTAL	3,603	3,390	3,055	2,414	2,143	-12.5	-11.2
DEPT OF DEFENSE	150	131	144	128	174	-5.1	35.9
DEPT OF HHS, TOTAL	2,534	1,928	1,663	1,323	1,024	-19.5	-22.6
NIH	1,096	1,043	926	716	600	-13.2	-16.2
OTHER HHS	1,438	885	737	607	424	-25.0	-30.1
NSF	261	289	246	206	192	-7.6	-6.8
ALL OTHER FEDERAL	658	1,042	1,002	757	753	4.8	-.5
INSTITUTIONAL SUPPORT	8,205	8,573	9,429	9,355	9,848	4.5	5.3
OTHER OUTSIDE SUPPORT, TOTAL	1,484	1,515	1,531	1,397	1,354	-2.0	-3.1
ALL OTHER U.S.	1,360	1,377	1,438	1,315	1,284	-1.1	-2.4
FOREIGN	124	138	93	82	70	-12.9	-14.6
SELF-SUPPORT	12,573	13,214	12,710	12,652	13,419	.2	6.1
SOCIAL SCIENCES:							
TOTAL, ALL SOURCES	56,191	56,575	55,829	53,516	52,693	-1.6	-1.5
FEDERAL, TOTAL	6,123	5,650	4,855	4,125	3,863	-12.3	-6.4
DEPT OF DEFENSE	323	368	273	284	360	-4.0	25.9
DEPT OF HHS, TOTAL	2,458	1,627	1,358	973	621	-26.6	-36.2
NIH	558	591	541	382	322	-11.9	-15.7
OTHER HHS	1,900	1,036	817	591	299	-32.2	-49.4
NSF	544	547	466	355	348	-13.3	-2.0
ALL OTHER FEDERAL	2,798	3,108	2,758	2,511	2,534	-3.5	.9
INSTITUTIONAL SUPPORT	19,130	19,708	20,130	20,287	20,508	2.0	1.1
OTHER OUTSIDE SUPPORT, TOTAL	4,200	4,284	4,410	4,376	4,427	1.4	1.2
ALL OTHER U.S.	2,357	2,044	1,927	1,948	2,066	-6.2	6.1
FOREIGN	1,843	2,240	2,483	2,428	2,361	9.6	-2.8
SELF-SUPPORT	26,738	26,933	26,434	24,728	23,895	-2.6	-3.4

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-11. — MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-83

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL AREAS:							
TOTAL, ALL SOURCES	163,509	164,827	165,113	166,816	172,251	.7	3.3
FEDERAL, TOTAL	37,449	36,907	35,277	33,232	33,803	-3.9	1.7
DEPT OF DEFENSE	4,622	4,816	5,209	5,417	6,285	5.4	16.0
DEPT OF HHS, TOTAL	11,609	9,842	9,041	8,065	7,633	-11.4	-5.4
NIH	7,715	7,566	7,200	6,709	6,642	-4.6	-1.0
OTHER HHS	3,894	2,276	1,841	1,356	991	-29.6	-26.9
NSF	7,839	7,738	7,514	7,617	7,757	-1.0	1.8
ALL OTHER FEDERAL	13,379	14,511	13,513	12,133	12,128	-3.2	*
INSTITUTIONAL SUPPORT	60,569	62,250	63,671	64,941	66,821	2.4	2.9
OTHER OUTSIDE SUPPORT, TOTAL	16,270	16,967	18,149	19,352	19,371	6.0	.1
ALL OTHER U.S.	9,497	9,871	10,541	11,570	11,751	6.8	1.6
FOREIGN	6,773	7,096	7,608	7,782	7,620	4.7	-2.1
SELF-SUPPORT	49,221	48,703	48,016	49,291	52,256	*	6.0
ENGINEERING:							
TOTAL, ALL SOURCES	36,816	39,091	41,471	44,827	49,196	6.8	9.7
FEDERAL, TOTAL	10,099	10,340	10,110	10,138	10,98.	.3	8.3
DEPT OF DEFENSE	2,573	2,719	3,025	3,286	3,811	8.5	16.0
DEPT OF HHS, TOTAL	905	553	454	422	450	-22.5	6.6
NIH	446	427	383	338	373	-8.8	10.4
OTHER HHS	459	126	71	84	77	-43.2	-8.3
NSF	2,256	2,245	2,189	2,371	2,453	1.7	3.5
ALL OTHER FEDERAL	4,325	4,823	4,442	4,059	4,268	-2.1	5.1
INSTITUTIONAL SUPPORT	10,650	11,608	12,854	13,741	14,662	8.9	6.7
OTHER OUTSIDE SUPPORT, TOTAL	5,263	5,767	6,520	7,134	7,437	10.7	4.2
ALL OTHER U.S.	3,326	3,763	4,381	4,759	5,107	12.7	7.3
FOREIGN	1,937	2,004	2,139	2,375	2,330	7.0	-1.9
SELF-SUPPORT	10,844	11,376	11,987	13,814	16,115	8.4	16.7
PHYSICAL SCIENCES:							
TOTAL, ALL SOURCES	19,044	19,215	19,307	19,641	20,365	1.0	3.7
FEDERAL, TOTAL	6,537	6,675	6,796	6,519	6,780	-.1	4.0
DEPT OF DEFENSE	574	602	681	625	716	2.9	14.6
DEPT OF HHS, TOTAL	1,281	1,325	1,205	1,141	1,152	-3.8	1.0
NIH	1,156	1,257	1,117	1,073	1,074	-2.5	.1
OTHER HHS	125	68	88	68	78	-18.4	14.7
NSF	2,644	2,550	2,622	2,695	2,744	.6	1.8
ALL OTHER FEDERAL	2,038	2,198	2,288	2,058	2,168	.3	5.3
INSTITUTIONAL SUPPORT	9,848	10,096	10,007	10,367	10,734	1.7	3.5
OTHER OUTSIDE SUPPORT, TOTAL	1,298	1,128	1,229	1,490	1,383	4.7	-7.2
ALL OTHER U.S.	948	821	905	1,100	997	5.1	-9.4
FOREIGN	350	307	324	390	386	3.7	-1.0
SELF-SUPPORT	1,361	1,316	1,275	1,265	1,468	-2.4	16.0
ENVIRONMENTAL SCIENCES:							
TOTAL, ALL SOURCES	8,471	8,451	8,429	8,508	9,032	.5	6.9
FEDERAL, TOTAL	2,837	2,717	2,315	2,207	2,211	-8.0	.2
DEPT OF DEFENSE	287	299	265	268	314	-2.3	17.2
DEPT OF HHS, TOTAL	197	75	61	52	38	-35.9	-26.9
NIH	22	21	13	30	21	10.9	-30.0
OTHER HHS	175	54	48	22	17	-49.9	-22.7
NSF	1,041	992	921	906	1,000	-4.5	10.1
ALL OTHER FEDERAL	1,312	1,391	1,068	979	859	-9.3	-12.3
INSTITUTIONAL SUPPORT	2,788	2,835	3,014	3,062	3,086	3.2	.8
OTHER OUTSIDE SUPPORT, TOTAL	762	898	956	992	1,045	9.2	5.3
ALL OTHER U.S.	450	566	611	668	760	14.1	13.8
FOREIGN	312	332	345	324	285	1.3	-12.0
SELF-SUPPORT	2,084	2,001	2,144	2,347	2,690	4.0	14.6
MATHEMATICAL/COMPUTER SCIENCES:							
TOTAL, ALL SOURCES	12,301	12,779	13,331	14,889	16,093	6.6	8.1
FEDERAL, TOTAL	1,447	1,583	1,562	1,634	1,636	4.1	.1
DEPT OF DEFENSE	559	585	683	704	709	8.0	.7
DEPT OF HHS, TOTAL	106	96	72	69	56	-13.3	-18.8
NIH	83	79	65	58	41	-11.3	-29.3
OTHER HHS	23	17	7	11	15	-21.8	36.4
NSF	509	510	514	512	524	.2	2.3
ALL OTHER FEDERAL	273	392	293	349	347	8.5	-.6
INSTITUTIONAL SUPPORT	6,481	6,682	6,804	7,299	7,889	4.0	8.1
OTHER OUTSIDE SUPPORT, TOTAL	878	937	973	1,055	1,059	6.3	.4
ALL OTHER U.S.	469	523	498	593	585	8.1	-1.3
FOREIGN	409	414	475	462	474	4.1	2.6
SELF-SUPPORT	3,495	3,577	3,992	4,901	5,509	11.9	12.4

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TABLE B-11. -- MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-83

- CONTINUED

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
AGRICULTURAL SCIENCES:							
TOTAL, ALL SOURCES	7,645	7,644	7,735	7,431	7,348	-.9	-1.1
FEDERAL, TOTAL	1,437	1,402	1,331	1,282	1,175	-3.7	-8.3
DEPT OF DEFENSE	14	10	9	6	11	-24.6	83.3
DEPT OF HHS, TOTAL	74	79	36	25	14	-30.4	-44.0
NIH	55	74	35	23	11	-25.2	-52.2
OTHER HHS	19	5	1	2	3	-52.8	50.0
NSF	52	70	57	48	48	-2.6	.0
ALL OTHER FEDERAL	1,297	1,243	1,229	1,203	1,102	-2.5	-8.4
INSTITUTIONAL SUPPORT	2,594	2,509	2,533	2,498	2,660	-1.2	6.5
OTHER OUTSIDE SUPPORT, TOTAL	1,613	1,784	1,868	1,747	1,777	2.7	1.7
ALL OTHER U.S.	680	742	748	687	724	.3	5.4
FOREIGN	933	1,042	1,120	1,060	1,053	4.3	-.7
SELF-SUPPORT	2,001	1,949	2,003	1,904	1,736	-1.6	-8.8
BIOLOGICAL SCIENCES:							
TOTAL, ALL SOURCES	24,621	23,968	23,390	22,340	22,238	-3.2	-.5
FEDERAL, TOTAL	7,265	7,051	6,926	6,434	6,376	-4.0	-.9
DEPT OF DEFENSE	94	113	96	88	169	-2.2	92.0
DEPT OF HHS, TOTAL	4,915	4,649	4,619	4,329	4,333	-4.1	.1
NIH	4,607	4,436	4,381	4,148	4,176	-3.4	.7
OTHER HHS	308	213	238	181	157	-16.2	-13.3
NSF	819	814	780	730	651	-3.8	-10.8
ALL OTHER FEDERAL	1,437	1,475	1,431	1,287	1,223	-3.6	-5.0
INSTITUTIONAL SUPPORT	10,262	10,341	10,054	9,882	9,899	-1.2	.2
OTHER OUTSIDE SUPPORT, TOTAL	2,063	1,969	2,013	2,165	2,214	1.6	2.3
ALL OTHER U.S.	1,199	1,167	1,139	1,310	1,322	3.0	.9
FOREIGN	864	802	874	855	892	-.3	4.3
SELF-SUPPORT	5,031	4,607	4,397	3,859	3,749	-8.5	-2.9
HEALTH SCIENCES:							
TOTAL, ALL SOURCES	7,842	8,002	7,641	7,098	6,935	-3.3	-2.3
FEDERAL, TOTAL	2,399	2,305	2,034	1,519	1,370	-14.1	-9.8
DEPT OF DEFENSE	130	120	114	115	125	-4.0	8.7
DEPT OF HHS, TOTAL	1,883	1,567	1,377	1,070	925	-17.2	-13.6
NIH	600	548	549	596	571	-.2	-4.2
OTHER HHS	1,283	1,019	828	474	354	-28.2	-25.3
NSF	27	38	19	24	14	-3.9	-41.7
ALL OTHER FEDERAL	359	580	524	310	306	-4.8	-1.3
INSTITUTIONAL SUPPORT	1,961	2,129	2,004	2,014	1,871	.9	-7.1
OTHER OUTSIDE SUPPORT, TOTAL	670	685	701	719	813	2.4	13.1
ALL OTHER U.S.	341	365	388	410	508	6.3	23.9
FOREIGN	329	320	313	309	305	-2.1	-1.3
SELF-SUPPORT	2,812	2,883	2,902	2,846	2,881	.4	1.2
PSYCHOLOGY:							
TOTAL, ALL SOURCES	13,280	12,788	12,066	11,282	11,413	-5.3	1.2
FEDERAL, TOTAL	1,906	1,682	1,512	1,199	1,016	-14.3	-15.3
DEPT OF DEFENSE	106	89	100	79	117	-9.3	48.1
DEPT OF HHS, TOTAL	1,242	904	760	635	456	-20.0	-28.2
NIH	522	502	433	312	255	-15.8	-18.3
OTHER HHS	720	402	327	323	201	-23.4	-37.8
NSF	144	160	125	104	99	-10.3	-4.8
ALL OTHER FEDERAL	414	529	527	381	344	-2.7	-9.7
INSTITUTIONAL SUPPORT	4,268	4,261	4,435	4,232	4,325	-.3	2.2
OTHER OUTSIDE SUPPORT, TOTAL	782	744	790	740	628	-1.8	-15.1
ALL OTHER U.S.	706	672	750	702	595	-.2	-15.2
FOREIGN	76	72	40	38	33	-20.6	-13.2
SELF-SUPPORT	6,324	6,101	5,329	5,111	5,444	-6.9	6.5
SOCIAL SCIENCES:							
TOTAL, ALL SOURCES	33,489	32,889	31,743	30,700	29,631	-2.9	-3.5
FEDERAL, TOTAL	3,562	3,152	2,691	2,300	2,257	-13.6	-1.9
DEPT OF DEFENSE	285	319	236	246	313	-4.8	27.2
DEPT OF HHS, TOTAL	1,006	594	457	322	209	-31.6	-35.1
NIH	224	222	224	131	120	-16.4	-8.4
OTHER HHS	782	372	233	191	89	-37.5	-53.4
NSF	347	359	287	225	224	-13.4	-.4
ALL OTHER FEDERAL	1,924	1,880	1,711	1,507	1,511	-7.8	.3
INSTITUTIONAL SUPPORT	11,717	11,789	11,964	11,846	11,695	.4	-1.3
OTHER OUTSIDE SUPPORT, TOTAL	2,941	3,055	3,099	3,310	3,015	4.0	-8.9
ALL OTHER U.S.	1,378	1,252	1,121	1,341	1,153	-.9	-14.0
FOREIGN	1,563	1,803	1,978	1,969	1,862	8.0	-5.4
SELF-SUPPORT	15,269	14,893	13,987	13,244	12,664	-4.6	-4.4

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-12. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-83

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL AREAS:							
TOTAL, ALL SOURCES	78,870	84,332	87,884	88,481	91,549	3.9	3.5
FEDERAL, TOTAL	17,001	17,611	16,853	15,251	14,808	-3.6	-2.9
DEPT OF DEFENSE	416	470	487	547	759	9.6	38.8
DEPT OF HHS, TOTAL	11,667	10,113	9,346	8,326	7,653	-10.6	-8.1
NIH	4,116	4,203	4,241	4,310	4,331	1.5	.5
OTHER HHS	7,551	5,910	5,105	4,016	3,322	-19.0	-17.3
NSF	1,537	1,614	1,668	1,677	1,780	2.9	6.1
ALL OTHER FEDERAL	3,381	5,414	5,352	4,701	4,616	11.6	-1.8
INSTITUTIONAL SUPPORT	26,109	28,264	30,364	32,545	34,301	7.6	5.4
OTHER OUTSIDE SUPPORT, TOTAL	4,725	4,879	5,062	5,159	5,961	3.0	15.5
ALL OTHER U.S.	3,661	3,627	3,756	3,797	4,331	1.2	19.3
FOREIGN	1,064	1,252	1,306	1,362	1,430	8.6	5.0
SELF-SUPPORT	31,035	33,578	35,605	35,526	36,479	4.6	2.7
ENGINEERING:							
TOTAL, ALL SOURCES	3,577	4,016	4,786	5,412	6,034	14.8	11.5
FEDERAL, TOTAL	752	851	864	957	1,026	8.4	7.2
DEPT OF DEFENSE	81	139	135	169	198	27.8	17.2
DEPT OF HHS, TOTAL	143	112	95	83	125	-16.6	50.6
NIH	67	81	63	65	104	-1.0	60.0
OTHER HHS	76	31	32	18	21	-38.1	16.7
NSF	156	166	179	202	229	9.0	13.4
ALL OTHER FEDERAL	372	434	455	503	474	10.6	-5.8
INSTITUTIONAL SUPPORT	1,137	1,252	1,512	1,828	1,971	17.1	7.8
OTHER OUTSIDE SUPPORT, TOTAL	428	535	632	722	796	19.0	10.2
ALL OTHER U.S.	343	443	514	580	680	19.1	17.2
FOREIGN	85	92	118	142	116	18.7	-18.3
SELF-SUPPORT	1,260	1,378	1,778	1,905	2,241	14.8	17.6
PHYSICAL SCIENCES:							
TOTAL, ALL SOURCES	3,491	3,703	4,001	4,399	4,832	8.0	9.8
FEDERAL, TOTAL	959	1,032	1,160	1,194	1,345	7.6	12.6
DEPT OF DEFENSE	71	59	72	82	115	4.9	40.2
DEPT OF HHS, TOTAL	328	325	334	377	383	4.8	1.6
NIH	281	299	315	362	363	8.8	.3
OTHER HHS	47	26	19	15	20	-31.7	33.3
NSF	332	337	414	419	471	8.1	12.4
ALL OTHER FEDERAL	228	311	340	316	376	11.5	19.0
INSTITUTIONAL SUPPORT	2,065	2,250	2,325	2,634	2,876	8.5	9.2
OTHER OUTSIDE SUPPORT, TOTAL	218	214	242	295	311	10.6	5.4
ALL OTHER U.S.	166	154	192	230	230	11.5	.0
FOREIGN	52	60	50	65	81	7.7	24.6
SELF-SUPPORT	249	207	274	276	300	3.5	8.7
ENVIRONMENTAL SCIENCES:							
TOTAL, ALL SOURCES	2,253	2,518	2,609	2,828	3,019	7.9	6.8
FEDERAL, TOTAL	686	725	695	647	671	-1.9	3.7
DEPT OF DEFENSE	41	37	45	32	51	-7.9	59.4
DEPT OF HHS, TOTAL	90	46	38	25	14	-34.8	-44.0
NIH	9	13	7	12	4	10.1	-66.7
OTHER HHS	81	33	31	13	10	-45.7	-23.1
NSF	242	264	285	284	323	5.5	13.7	
ALL OTHER FEDERAL	313	378	327	306	283	-.8	-7.5
INSTITUTIONAL SUPPORT	884	988	1,044	1,192	1,172	10.5	-1.7
OTHER OUTSIDE SUPPORT, TOTAL	136	191	217	228	248	18.8	8.8
ALL OTHER U.S.	113	156	179	188	222	18.5	18.1
FOREIGN	23	35	38	40	26	20.3	-35.0
SELF-SUPPORT	547	614	653	761	928	11.6	21.9
MATHEMATICAL/COMPUTER SCIENCES:							
TOTAL, ALL SOURCES	3,220	3,710	4,268	5,105	5,567	16.6	9.0
FEDERAL, TOTAL	207	238	242	259	256	7.8	-1.2
DEPT OF DEFENSE	49	42	54	57	78	5.2	36.8
DEPT OF HHS, TOTAL	40	34	13	17	14	-24.8	-17.6
NIH	19	21	7	9	13	-22.0	44.4
OTHER HHS	21	13	6	8	1	-27.5	-87.5
NSF	77	85	92	105	85	10.9	-19.0
ALL OTHER FEDERAL	41	77	83	80	79	25.0	-1.3
INSTITUTIONAL SUPPORT	1,858	1,992	2,319	2,584	2,834	11.6	9.7
OTHER OUTSIDE SUPPORT, TOTAL	222	222	216	288	286	9.1	-.7
ALL OTHER U.S.	140	133	125	171	165	6.9	-3.5
FOREIGN	82	89	91	117	121	12.6	3.4
SELF-SUPPORT	933	1,258	1,491	1,974	2,191	28.4	11.0

CONTINUED ON NEXT PAGE.

TABLE B-12. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-83

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
AGRICULTURAL SCIENCES:							
TOTAL, ALL SOURCES	2,149	2,336	2,341	2,460	2,488	4.6	1.1
FEDERAL, TOTAL	346	419	401	389	370	4.0	-4.9
DEPT OF DEFENSE	2	1	2	2	4	.0	100.0
DEPT OF HHS, TOTAL	33	45	23	13	11	-26.7	-15.4
NIH	17	36	18	10	8	-16.2	-20.0
OTHER HHS	16	9	5	3	3	-42.8	.0
NSF	24	15	13	24	19	.0	-20.8
ALL OTHER FEDERAL	287	358	363	350	336	6.8	-4.0
INSTITUTIONAL SUPPORT	862	893	954	1,016	985	5.6	-3.1
OTHER OUTSIDE SUPPORT, TOTAL	219	286	293	299	334	10.9	11.7
ALL OTHER U.S.	139	201	202	197	225	12.3	14.2
FOREIGN	80	85	91	102	109	8.4	6.9
SELF-SUPPORT	722	738	693	756	799	1.5	5.7
BIOLOGICAL SCIENCES:							
TOTAL, ALL SOURCES	13,597	13,960	14,192	14,649	14,948	2.5	2.0
FEDERAL, TOTAL	3,819	3,871	3,831	3,836	4,015	.1	4.7
DEPT OF DEFENSE	31	49	26	35	74	4.1	111.4
DEPT OF HHS, TOTAL	2,750	2,673	2,654	2,675	2,833	-.9	5.9
NIH	2,489	2,477	2,497	2,532	2,680	.6	5.8
OTHER HHS	261	196	157	143	153	-18.2	7.0
NSF	373	397	376	401	421	2.4	5.0
ALL OTHER FEDERAL	665	752	775	725	687	2.9	-5.2
INSTITUTIONAL SUPPORT	5,665	6,039	6,469	6,728	6,873	5.9	2.2
OTHER OUTSIDE SUPPORT, TOTAL	896	858	807	967	1,028	2.6	6.3
ALL OTHER U.S.	644	640	574	709	766	3.3	8.0
FOREIGN	252	218	233	258	262	.8	1.6
SELF-SUPPORT	3,217	3,192	3,085	3,118	3,032	-1.0	-2.8
HEALTH SCIENCES:							
TOTAL, ALL SOURCES	15,296	16,499	16,942	16,276	16,248	2.1	-.2
FEDERAL, TOTAL	5,974	6,269	5,953	4,929	4,392	-6.2	-10.9
DEPT OF DEFENSE	59	52	72	81	135	11.1	66.7
DEPT OF HHS, TOTAL	5,539	4,821	4,385	3,797	3,293	-11.8	-13.3
NIH	326	366	524	665	612	26.8	-8.0
OTHER HHS	5,213	4,455	3,861	3,132	2,681	-15.6	-14.4
NSF	19	33	9	10	15	-19.3	50.0
ALL OTHER FEDERAL	357	1,363	1,487	1,041	949	42.9	-8.8
INSTITUTIONAL SUPPORT	2,288	2,619	2,583	2,999	3,254	9.4	8.5
OTHER OUTSIDE SUPPORT, TOTAL	645	573	603	637	820	-.4	28.7
ALL OTHER U.S.	483	403	476	502	641	1.3	27.7
FOREIGN	162	170	127	135	179	-5.9	32.6
SELF-SUPPORT	6,389	7,038	7,803	7,711	7,782	6.5	.9
PSYCHOLOGY:							
TOTAL, ALL SOURCES	12,585	13,904	14,659	14,536	15,351	4.9	5.6
FEDERAL, TOTAL	1,697	1,708	1,543	1,215	1,127	-10.5	-7.2
DEPT OF DEFENSE	44	42	44	49	57	3.7	16.3
DEPT OF HHS, TOTAL	1,292	1,024	903	688	568	-18.9	-17.4
NIH	574	541	493	404	345	-11.0	-14.6
OTHER HHS	718	483	410	284	223	-26.6	-21.5
NSF	117	129	121	102	93	-4.5	-8.8
ALL OTHER FEDERAL	244	513	475	376	409	15.5	8.8
INSTITUTIONAL SUPPORT	3,937	4,312	4,994	5,123	5,523	9.2	7.8
OTHER OUTSIDE SUPPORT, TOTAL	702	771	741	657	726	-2.2	10.5
ALL OTHER U.S.	654	705	688	613	689	-2.1	12.4
FOREIGN	48	66	53	44	37	-2.9	-15.9
SELF-SUPPORT	6,249	7,113	7,381	7,541	7,975	6.5	5.8
SOCIAL SCIENCES:							
TOTAL, ALL SOURCES	22,702	23,686	24,086	22,816	23,062	.2	1.1
FEDERAL, TOTAL	2,561	2,498	2,164	1,825	1,606	-10.7	-12.0
DEPT OF DEFENSE	38	49	37	40	47	1.7	17.5
DEPT OF HHS, TOTAL	1,452	1,033	901	651	412	-23.5	-36.7
NIH	334	369	317	251	202	-9.1	-19.5
OTHER HHS	1,118	664	584	400	210	-29.0	-47.5
NSF	197	188	179	[illegible]	124	-12.9	-4.6
ALL OTHER FEDERAL	874	1,228	1,047	1,[illegible]4	1,023	4.7	1.9
INSTITUTIONAL SUPPORT	7,413	7,919	8,164	8,441	8,813	4.4	4.4
OTHER OUTSIDE SUPPORT, TOTAL	1,259	1,229	1,311	1,066	1,412	-5.4	32.5
ALL OTHER U.S.	979	792	806	607	913	-14.7	50.4
FOREIGN	280	437	505	459	499	17.9	8.7
SELF-SUPPORT	11,469	12,040	12,447	11,484	11,231	*	-2.2

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-13.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY TYPE AND SOURCE OF MAJOR SUPPORT: 1979-83

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL TYPES:							
TOTAL, ALL SOURCES	242,379	249,159	252,997	255,297	263,800	1.7	3.3
FEDERAL, TOTAL	54,450	54,518	52,130	48,483	48,611	-3.8	.3
DEPT OF DEFENSE	5,038	5,286	5,696	5,964	7,044	5.8	18.1
DEPT OF HHS, TOTAL	23,276	19,955	18,387	16,391	15,286	-11.0	-6.7
NIH	11,831	11,769	11,441	11,019	10,973	-2.3	-.4
OTHER HHS	11,445	8,186	6,946	5,372	4,313	-22.3	-19.7
NSF	9,376	9,352	9,182	9,294	9,537	-.3	2.6
ALL OTHER FEDERAL	16,760	19,925	18,865	16,834	16,744	.1	-.5
INSTITUTIONAL SUPPORT	86,678	90,514	94,035	97,486	101,122	4.0	3.7
OTHER OUTSIDE SUPPORT, TOTAL	20,995	21,846	23,211	24,511	25,332	5.3	3.3
ALL OTHER U.S.	13,158	13,498	14,297	15,367	16,282	5.3	6.0
FOREIGN	7,837	8,348	8,914	9,144	9,050	5.3	-1.0
SELF-SUPPORT	80,256	82,281	83,621	84,817	88,735	1.9	4.6
FELLOWSHIPS AND TRAINEESHIPS:							
TOTAL, ALL SOURCES	40,300	40,058	38,692	37,053	36,426	-2.8	-1.7
FEDERAL, TOTAL	19,948	19,121	17,273	14,973	13,705	-9.1	-8.5
DEPT OF DEFENSE	282	330	270	238	339	-5.5	42.4
DEPT OF HHS, TOTAL	15,951	13,066	11,729	10,049	8,697	-14.3	-13.5
NIH	6,307	5,920	5,618	5,448	5,135	-4.8	-5.7
OTHER HHS	9,644	7,146	6,111	4,601	3,562	-21.9	-22.6
NSF	1,629	1,578	1,419	1,398	1,373	-5.0	-1.8
ALL OTHER FEDERAL	2,086	4,147	3,855	3,288	3,296	16.4	.2
INSTITUTIONAL SUPPORT	13,129	13,123	13,318	13,434	13,992	.8	4.2
OTHER OUTSIDE SUPPORT, TOTAL	7,227	7,814	8,101	8,646	8,729	6.2	1.0
ALL OTHER U.S.	3,953	4,068	4,106	4,556	4,688	4.8	2.9
FOREIGN	3,274	3,746	3,995	4,090	4,041	7.7	-1.2
SELF-SUPPORT	0	0	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:							
TOTAL, ALL SOURCES	49,425	51,954	53,144	53,027	55,670	2.4	5.0
FEDERAL, TOTAL	28,129	29,395	29,207	28,345	29,246	.3	3.2
DEPT OF DEFENSE	2,802	2,934	3,297	3,469	3,934	7.4	13.4
DEPT OF HHS, TOTAL	6 223	6,062	6,081	5,801	6,022	-2.3	3.8
NIH	5 066	5,459	5,520	5,281	5,470	1.4	3.6
OTHER HHS	1,157	603	561	520	552	-23.4	6.2
NSF	7,508	7,630	7,602	7,753	8,072	1.1	4.1
ALL OTHER FEDERAL	11,596	12,769	12,227	11,322	11,218	-.8	-.9
INSTITUTIONAL SUPPORT	15,691	16,688	17,549	17,795	18,578	4.3	4.4
OTHER OUTSIDE SUPPORT, TOTAL	5,605	5,871	6,388	6,887	7,846	7.1	13.9
ALL OTHER U.S.	4,918	5,321	5,780	6,299	7,286	8.6	15.7
FOREIGN	687	550	608	588	560	-5.1	-4.8
SELF-SUPPORT	0	0	0	0	0	0	0
TEACHING ASSISTANTSHIPS:							
TOTAL, ALL SOURCES	52,033	54,134	56,023	58,652	60,599	4.1	3.3
FEDERAL, TOTAL	609	680	622	431	505	-10.9	17.2
DEPT OF DEFENSE	0	0	0	0	0	0	0
DEPT OF HHS, TOTAL	252	145	118	110	112	-24.1	1.8
NIH	116	83	75	49	75	-25.0	53.1
OTHER HHS	136	62	43	61	37	-23.5	-39.3
NSF	36	37	61	27	25	-9.1	-7.4
ALL OTHER FEDERAL	321	498	443	294	368	-2.9	25.2
INSTITUTIONAL SUPPORT	51,018	53,114	54,992	57,732	59,702	4.2	3.4
OTHER OUTSIDE SUPPORT, TOTAL	406	340	409	489	392	6.4	-19.8
ALL OTHER U.S.	406	340	409	489	392	6.4	-19.8
FOREIGN	0	0	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0	0	0
OTHER TYPES OF SUPPORT:							
TOTAL, ALL SOURCES	100,621	103,013	105,138	106,565	111,105	1.9	4.3
FEDERAL, TOTAL	5,764	5,322	5,028	4,734	5,155	-6.4	8.9
DEPT OF DEFENSE	1,954	2,022	2,129	2,257	2,771	4.9	22.8
DEPT OF HHS, TOTAL	850	682	459	431	455	-20.3	5.6
NIH	342	307	228	241	293	-11.0	21.6
OTHER HHS	508	375	231	190	162	-28.0	-14.7
NSF	203	107	100	116	67	-17.0	-42.2
ALL OTHER FEDERAL	2,757	2,511	2,340	1,930	1,862	-11.2	-3.5
INSTITUTIONAL SUPPORT	6,844	7,589	8,176	8,525	8,850	7.6	3.8
OTHER OUTSIDE SUPPORT, TOTAL	7,757	7,821	8,313	8,489	8,365	3.1	-1.5
ALL OTHER U.S.	3,881	3,769	4,002	4,023	3,916	1.2	-2.7
FOREIGN	3,876	4,052	4,311	4,466	4,449	4.8	-.4
SELF-SUPPORT	80,256	82,281	83,621	84,817	88,735	1.9	4.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-14.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FELLOWSHIPS AND TRAINEESHIPS IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	40,300	40,058	38,692	37,053	36,426	-2.8	-1.7
ENGINEERING	4,440	4,693	5,122	5,506	5,703	7.4	3.6
AEROSPACE	90	105	130	147	196	17.8	33.3
AGRICULTURAL	71	84	47	70	82	-.5	17.1
BIOMEDICAL	194	153	143	121	154	-14.6	27.3
CHEMICAL	701	730	806	1,028	1,019	13.6	-.9
CIVIL	756	811	834	802	793	2.0	-1.1
ELECTRICAL	761	871	1,099	1,163	1,181	15.2	1.5
ENGINEERING SCIENCE	152	159	207	225	303	14.0	34.7
INDUSTRIAL	355	296	305	330	294	-2.4	-10.9
MECHANICAL	562	594	639	708	725	8.0	3.8
METALLURGICAL/MATERIALS	279	326	310	330	319	5.8	-3.3
MINING	126	102	92	52	57	-25.5	9.6
NUCLEAR	124	159	143	158	166	8.4	5.1
PETROLEUM	77	89	73	102	122	9.8	19.6
ENGINEERING, N.E.C.	192	214	294	270	282	12.0	4.4
PHYSICAL SCIENCES	2,330	2,212	2,301	2,337	2,310	.1	-1.2
ASTRONOMY	95	103	72	87	71	-2.9	-18.4
CHEMISTRY	1,460	1,303	1,415	1,371	1,383	-2.1	.9
PHYSICS	769	795	809	870	850	4.2	-2.3
PHYSICAL SCIENCES, N.E.C.	6	11	5	9	6	14.5	-33.3
ENVIRONMENTAL SCIENCES	1,126	1,135	1,122	1,155	1,162	.9	.6
ATMOSPHERIC SCIENCES	41	30	22	33	42	-7.0	27.3
GEOSCIENCES	690	775	743	774	793	3.9	2.5
OCEANOGRAPHY	157	168	177	211	202	10.4	-4.3
ENVIRONMENTAL SCIENCES, N.E.C.	238	162	180	137	125	-16.8	-8.8
MATHEMATICAL/COMPUTER SCIENCES	1,399	1,275	1,312	1,298	1,355	-2.5	4.4
COMPUTER SCIENCE	439	370	497	485	537	3.4	10.7
MATHEMATICS AND APPLIED MATHEMATICS	798	732	704	701	693	-4.2	-1.1
STATISTICS	162	173	111	112	125	-11.6	11.6
LIFE SCIENCES	17,478	17,479	16,915	15,779	15,108	-3.4	-4.3
AGRICULTURAL SCIENCES	733	785	831	803	795	3.1	-1.0
BIOLOGICAL SCIENCES	8,338	8,264	8,078	7,930	8,032	-1.7	1.3
ANATOMY	279	280	285	246	265	-4.1	7.7
BIOCHEMISTRY	1,096	1,074	1,033	1,014	1,079	-2.6	6.4
BIOLOGY	1,615	1,512	1,375	1,318	1,388	-6.5	5.3
BIOMETRY/EPIDEMIOLOGY	343	360	429	384	350	3.8	-8.9
BIOPHYSICS	215	182	175	161	167	-9.2	3.7
BOTANY	277	231	227	231	310	-5.9	34.2
CELL BIOLOGY	424	498	483	576	516	10.8	-10.4
ECOLOGY	82	119	126	113	121	11.3	7.1
ENTOMOLOGY/PARASITOLOGY	130	154	166	149	125	4.7	-16.1
GENETICS	354	363	309	321	361	-3.2	12.5
MICROBIOLOGY	981	920	831	865	869	-4.1	.5
NUTRITION	379	390	369	380	309	.1	-18.7
PATHOLOGY	342	340	418	340	344	1.7	-4.4
PHARMACOLOGY	862	872	892	879	856	.7	-2.6
PHYSIOLOGY	563	563	531	479	524	-5.2	9.4
ZOOLOGY	199	200	196	207	224	1.3	8.2
BIOSCIENCES, N.E.C.	197	206	233	247	214	7.8	-9.3
HEALTH SCIENCES	8,407	8,430	8,006	7,046	6,281	-5.7	-10.9
ANESTHESIOLOGY	3	0	1	0	0	-100.0	**
CANCER/ONCOLOGY	35	35	5	49	57	11.9	16.3
CARDIOLOGY	1	11	0	3	3	44.2	.0
DENTISTRY	161	138	146	198	151	7.1	-23.7
ENDOCRINOLOGY	20	20	20	29	25	13.2	-13.8
GASTROENTEROLOGY	0	0	2	1	0	**	-100.0
HEMATOLOGY	5	1	2	1	1	-41.5	.0
NEUROLOGY	159	120	123	120	162	-9.0	35.0
NURSING	3,730	3,763	3,754	3,265	2,839	-4.3	-13.0
OBSTETRICS/GYNECOLOGY	20	2	6	5	8	-37.0	60.0
OPHTHALMOLOGY	2	10	6	2	2	.0	.0
OTORHINOLARYNGOLOGY	11	9	10	11	4	.0	-63.6
PEDIATRICS	68	73	92	62	61	-3.0	-1.6
PHARMACEUTICAL SCIENCES	245	240	272	242	268	-.4	10.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,821	1,960	1,828	1,342	1,136	-9.7	-15.4
PSYCHIATRY	49	37	25	40	44	-6.5	10.0
PULMONARY DISEASE	0	13	9	9	2	**	-77.8
RADIOLOGY	87	75	109	110	62	8.1	-43.6
SPEECH PATHOLOGY/AUDIOLOGY	1,001	914	852	817	809	-6.5	-1.0
SURGERY	41	41	65	57	24	11.6	-57.9
VETERINARY SCIENCES	76	85	57	64	75	-5.6	17.2
CLINICAL MEDICINE, N.E.C.	118	126	114	143	87	6.6	-39.2
HEALTH RELATED, N.E.C.	754	757	508	476	461	-14.2	-3.2
PSYCHOLOGY	3,790	3,609	3,260	3,026	2,640	-7.2	-12.8
SOCIAL SCIENCES	9,737	9,655	8,660	7,952	8,148	-6.5	2.5
AGRICULTURAL ECONOMICS	153	216	198	205	224	10.2	9.3
ANTHROPOLOGY	837	815	738	655	646	-7.8	-1.4
ECONOMICS (EXCEPT AGRICULTURAL)	1,395	1,388	1,162	1,152	1,314	-6.2	14.1
GEOGRAPHY	188	264	185	195	178	1.2	-8.7
HISTORY AND PHILOSOPHY OF SCIENCE	68	67	57	64	69	-2.0	7.8
LINGUISTICS	556	397	384	374	466	-12.4	24.6
POLITICAL SCIENCE	2,328	2,708	2,492	2,345	2,471	.2	5.4
SOCIOLOGY	1,049	943	956	896	834	-5.1	-6.9
SOCIOLOGY/ANTHROPOLOGY	116	83	48	67	76	-16.7	13.4
SOCIAL SCIENCES, N.E.C.	3,047	2,774	2,440	1,999	1,870	-13.1	-6.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-15.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY FUNDED FELLOWSHIPS AND TRAINEESHIPS IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	19,948	19,121	17,273	14,973	13,705	-9.1	-8.5
ENGINEERING	1,167	1,057	951	978	1,054	-5.7	7.8
AEROSPACE	16	28	45	49	60	45.2	22.4
AGRICULTURAL	9	7	8	0	3	-100.0	**
BIOMEDICAL	139	113	77	55	55	-26.6	.0
CHEMICAL	139	142	129	157	158	4.1	.6
CIVIL	185	200	130	113	108	-15.2	-4.4
ELECTRICAL	132	111	110	128	169	-1.0	32.0
ENGINEERING SCIENCE	32	36	90	107	127	49.5	18.7
INDUSTRIAL	140	54	72	67	65	-21.8	-3.0
MECHANICAL	98	89	81	96	103	-.7	7.3
METALLURGICAL/MATERIALS	114	104	74	77	48	-12.3	-37.7
MINING	98	67	50	20	28	-41.1	40.0
NUCLEAR	18	28	29	45	71	35.7	57.8
PETROLEUM	9	23	7	10	3	3.6	-70.0
ENGINEERING, N.E.C.	38	55	49	54	56	12.4	3.7
PHYSICAL SCIENCES	605	538	532	485	486	-7.1	.2
ASTRONOMY	19	24	13	11	9	-16.7	-18.2
CHEMISTRY	418	351	374	341	354	-6.6	3.8
PHYSICS	168	156	144	132	122	-7.7	-7.6
PHYSICAL SCIENCES, N.E.C.	0	7	1	1	1	**	.0
ENVIRONMENTAL SCIENCES	471	443	343	274	250	-16.5	-8.8
ATMOSPHERIC SCIENCES	14	13	9	9	12	-13.7	33.3
GEOSCIENCES	266	296	208	145	137	-18.3	-5.5
OCEANOGRAPHY	60	58	50	59	48	-.6	-18.6
ENVIRONMENTAL SCIENCES, N.E.C.	131	76	76	61	53	-22.5	-13.1
MATHEMATICAL/COMPUTER SCIENCES	238	241	171	169	223	-10.8	32.0
COMPUTER SCIENCE	79	93	70	67	84	-5.3	25.4
MATHEMATICS AND APPLIED MATHEMATICS	134	133	91	88	125	-13.1	42.0
STATISTICS	25	15	10	14	14	-17.6	.0
LIFE SCIENCES	12,421	12,142	11,317	9,920	9,157	-7.2	-7.7
AGRICULTURAL SCIENCES	163	165	135	157	126	-1.2	-19.7
BIOLOGICAL SCIENCES	5,239	4,899	4,691	4,455	4,459	-5.3	.1
ANATOMY	141	124	128	101	101	-10.5	.0
BIOCHEMISTRY	707	700	636	618	611	-4.2	-1.1
BIOLOGY	942	832	800	762	748	-6.8	-1.8
BIOMETRY/EPIDEMIOLOGY	283	303	331	273	262	-1.3	-4.0
BIOPHYSICS	177	154	122	124	130	-11.2	4.8
BOTANY	71	54	66	38	69	-18.8	81.6
CELL BIOLOGY	333	371	379	400	377	6.3	-5.8
ECOLOGY	23	41	45	55	42	15.0	20.0
ENTOMOLOGY/PARASITOLOGY	34	47	32	35	26	1.0	-25.7
GENETICS	298	270	230	243	270	-6.6	11.1
MICROBIOLOGY	639	533	433	473	487	-9.5	3.0
NUTRITION	185	166	132	127	108	-11.8	-15.0
PATHOLOGY	186	183	200	188	204	.4	8.5
PHARMACOLOGY	620	596	585	555	545	-3.6	-1.8
PHYSIOLOGY	377	338	336	287	301	-8.7	4.9
ZOOLOGY	131	98	112	95	76	-10.2	-20.0
BIOSCIENCES, N.E.C.	97	89	124	101	102	1.4	1.0
HEALTH SCIENCES	7,019	7,078	6,491	5,308	4,572	-8.9	-13.9
ANESTHESIOLOGY	0	0	0	0	0	**	**
CANCER/ONCOLOGY	33	34	5	48	56	13.3	16.7
CARDIOLOGY	1	1	0	3	3	44.2	.0
DENTISTRY	74	55	34	54	49	-10.0	-9.3
ENDOCRINOLOGY	7	8	10	12	15	19.7	25.0
GASTROENTEROLOGY	0	0	0	1	0	**	-100.0
HEMATOLOGY	0	0	0	0	1	**	**
NEUROLOGY	106	85	82	78	88	-9.7	12.8
NURSING	3,512	3,595	3,601	3,024	2,629	-4.9	-13.1
OBSTETRICS/GYNECOLOGY	12	2	2	3	4	-37.0	33.3
OPHTHALMOLOGY	2	10	4	0	0	-100.0	**
OTORHINOLARYNGOLOGY	1	0	0	0	0	-100.0	**
PEDIATRICS	58	55	73	40	49	-11.6	22.5
PHARMACEUTICAL SCIENCES	101	83	87	72	68	-10.7	-5.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,663	1,739	1,559	1,027	768	-14.8	-25.2
PSYCHIATRY	25	9	6	9	8	-28.9	-11.1
PULMONARY DISEASE	0	2	3	4	2	**	-50.0
RADIOLOGY	49	47	56	62	30	8.2	-51.6
SPEECH PATHOLOGY/AUDIOLOGY	707	653	520	467	435	-12.9	-6.9
SURGERY	1	3	9	5	4	71.0	-20.0
VETERINARY SCIENCES	21	18	14	19	11	-3.3	-42.1
CLINICAL MEDICINE, N.E.C.	29	51	30	49	39	19.1	-20.4
HEALTH RELATED, N.E.C.	617	628	393	331	313	-18.7	-5.4
PSYCHOLOGY	2,007	1,838	1,496	1,139	854	-17.2	-25.0
SOCIAL SCIENCES	3,039	2,862	2,463	2,008	1,681	-12.9	-16.3
AGRICULTURAL ECONOMICS	40	50	56	48	71	6.3	47.9
ANTHROPOLOGY	278	261	223	176	149	-14.1	-15.3
ECONOMICS (EXCEPT AGRICULTURAL)	193	196	169	120	123	-14.6	2.5
GEOGRAPHY	29	35	23	42	25	13.1	-40.5
HISTORY AND PHILOSOPHY OF SCIENCE	13	14	4	9	9	-11.5	.0
LINGUISTICS	77	82	108	79	88	.9	11.4
POLITICAL SCIENCE	607	492	411	384	371	-14.0	-3.9
SOCIOLOGY	346	287	255	207	175	-15.7	-15.5
SOCIOLOGY/ANTHROPOLOGY	39	38	5	13	16	-30.7	23.1
SOCIAL SCIENCES, N.E.C.	1,417	1,407	1,210	928	654	-13.2	-29.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-16.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY FUNDED FELLOWSHIPS AND TRAINEESHIPS IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	20,352	20,937	21,419	22,080	22,721	2.8	2.9
ENGINEERING	3,273	3,636	4,171	4,528	4,649	11.4	2.7
AEROSPACE	74	77	85	98	136	9.8	38.8
AGRICULTURAL	62	77	39	70	79	4.1	12.9
BIOMEDICAL	55	40	66	66	99	6.3	50.0
CHEMICAL	562	588	677	871	861	15.7	-1.1
CIVIL	571	611	704	689	685	6.5	-.6
ELECTRICAL	629	760	989	1,035	1,012	18.1	-2.2
ENGINEERING SCIENCE	120	123	117	118	176	-.6	49.2
INDUSTRIAL	215	242	233	263	229	6.9	-12.9
MECHANICAL	464	505	558	612	632	9.7	3.3
METALLURGICAL/MATERIALS	165	222	236	253	271	15.3	7.1
MINING	28	35	42	32	29	4.6	-9.4
NUCLEAR	106	131	114	113	95	2.2	-15.9
PETROLEUM	68	66	66	92	119	10.6	29.3
ENGINEERING, N.E.C.	154	159	245	216	226	11.9	4.6
PHYSICAL SCIENCES	1,725	1,674	1,769	1,852	1,824	2.4	-1.5
ASTRONOMY	76	79	39	76	62	.0	-18.4
CHEMISTRY	1,042	952	1,041	1,030	1,029	-.4	-.1
PHYSICS	601	639	665	738	728	7.1	-1.4
PHYSICAL SCIENCES, N.E.C.	6	4	4	8	5	10.1	-37.5
ENVIRONMENTAL SCIENCES	655	692	779	881	912	10.4	3.5
ATMOSPHERIC SCIENCES	27	17	13	24	30	-3.9	25.0
GEOSCIENCES	424	479	535	629	656	14.0	4.3
OCEANOGRAPHY	97	110	127	152	154	16.2	1.3
ENVIRONMENTAL SCIENCES, N.E.C.	107	86	104	76	72	-10.8	-5.3
MATHEMATICAL/COMPUTER SCIENCES	1,161	1,034	1,141	1,129	1,132	-.1	.3
COMPUTER SCIENCE	360	277	427	418	453	5.1	8.4
MATHEMATICS AND APPLIED MATHEMATICS	664	599	613	613	568	-2.6	-7.3
STATISTICS	137	158	101	98	111	-10.6	13.3
LIFE SCIENCES	5,057	5,337	5,598	5,859	5,951	5.0	1.6
AGRICULTURAL SCIENCES	570	620	696	646	669	4.3	3.6
BIOLOGICAL SCIENCES	3,099	3,365	3,387	3,475	3,573	3.9	2.8
ANATOMY	138	156	157	145	164	1.7	13.1
BIOCHEMISTRY	394	374	397	396	468	.2	18.2
BIOLOGY	673	680	575	556	640	-6.2	15.1
BIOMETRY/EPIDEMIOLOGY	60	57	98	111	88	22.8	-20.7
BIOPHYSICS	38	28	53	37	37	-.9	.0
BOTANY	206	177	161	193	241	-2.1	24.9
CELL BIOLOGY	91	127	104	176	139	24.6	-21.0
ECOLOGY	59	78	81	78	79	9.8	1.3
ENTOMOLOGY/PARASITOLOGY	96	107	134	114	99	5.9	-13.2
GENETICS	56	93	79	78	91	11.7	16.7
MICROBIOLOGY	342	387	398	392	382	4.7	-2.6
NUTRITION	194	224	237	253	201	9.2	-20.6
PATHOLOGY	156	157	218	172	140	3.2	-18.6
PHARMACOLOGY	242	276	307	324	311	10.2	-4.0
PHYSIOLOGY	186	225	193	192	223	1.1	16.1
ZOOLOGY	68	102	84	112	148	18.1	32.1
BIOSCIENCES, N.E.C.	100	117	109	146	123	13.4	-16.4
HEALTH SCIENCES	1,388	1,352	1,515	1,738	1,709	7.8	-1.7
ANESTHESIOLOGY	3	0	1	0	0	-100.0	**
CANCER/ONCOLOGY	2	1	0	1	1	-20.6	.0
CARDIOLOGY	0	10	0	0	0	**	**
DENTISTRY	87	83	112	144	102	18.3	-29.2
ENDOCRINOLOGY	13	12	10	17	10	9.4	-41.2
GASTROENTEROLOGY	0	0	2	0	0	**	**
HEMATOLOGY	5	1	0	1	0	-41.5	-100.0
NEUROLOGY	53	35	40	42	74	-7.5	76.2
NURSING	218	168	153	241	210	3.4	-12.9
OBSTETRICS/GYNECOLOGY	8	0	4	2	4	-37.0	100.0
OPHTHALMOLOGY	0	0	2	2	2	**	.0
OTORHINOLARYNGOLOGY	10	9	10	11	4	3.2	-63.6
PEDIATRICS	10	18	19	22	12	30.1	-45.5
PHARMACEUTICAL SCIENCES	144	157	185	170	200	5.7	17.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	158	221	269	315	368	25.9	16.8
PSYCHIATRY	24	28	19	31	36	8.9	16.1
PULMONARY DISEASE	0	11	6	5	0	**	-100.0
RADIOLOGY	38	28	53	48	32	8.1	-33.3
SPEECH PATHOLOGY/AUDIOLOGY	294	261	332	350	374	6.0	6.9
SURGERY	40	38	56	52	20	9.1	-61.5
VETERINARY SCIENCES	55	67	43	45	64	-6.5	42.2
CLINICAL MEDICINE, N.E.C.	89	75	84	94	48	1.8	-48.9
HEALTH RELATED, N.E.C.	137	129	115	145	148	1.9	2.1
PSYCHOLOGY	1,783	1,771	1,764	1,887	1,786	1.9	-5.4
SOCIAL SCIENCES	6,698	6,793	6,197	5,944	6,467	-3.9	8.8
AGRICULTURAL ECONOMICS	113	166	142	157	153	11.6	-2.5
ANTHROPOLOGY	559	554	516	479	497	-5.0	3.8
ECONOMICS (EXCEPT AGRICULTURAL)	1,202	1,192	993	1,032	1,191	-5.0	15.4
GEOGRAPHY	159	229	162	153	153	-1.3	.0
HISTORY AND PHILOSOPHY OF SCIENCE	55	53	53	55	60	.0	9.1
LINGUISTICS	479	315	276	295	378	-14.9	28.1
POLITICAL SCIENCE	1,721	2,216	2,001	1,959	2,100	4.4	7.2
SOCIOLOGY	703	656	701	689	659	-.7	-4.4
SOCIOLOGY/ANTHROPOLOGY	77	45	43	54	60	-11.2	11.1
SOCIAL SCIENCES, N.E.C.	1,630	1,367	1,230	1,071	1,216	-13.1	13.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-17.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH RESEARCH ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	49,425	51,954	53,144	53,027	55,670	2.4	5.0
ENGINEERING	12,911	14,007	14,482	14,701	15,700	4.4	6.8
AEROSPACE	503	580	583	617	691	7.0	12.0
AGRICULTURAL	347	362	398	427	433	7.2	1.4
BIOMEDICAL	208	215	253	304	326	13.5	7.2
CHEMICAL	1,627	1,845	2,018	2,099	2,255	8.9	7.4
CIVIL	2,020	2,205	2,202	2,116	2,362	1.6	11.6
ELECTRICAL	2,596	2,851	2,891	2,950	3,199	4.4	8.4
ENGINEERING SCIENCE	428	438	493	497	442	5.1	-11.1
INDUSTRIAL	563	591	545	556	458	-.4	-17.6
MECHANICAL	1,967	2,052	2,138	2,213	2,373	4.0	7.2
METALLURGICAL/MATERIALS	1,320	1,390	1,558	1,522	1,681	4.9	10.4
MINING	79	110	161	141	125	21.3	-11.3
NUCLEAR	536	508	480	412	436	-8.4	5.8
PETROLEUM	118	104	118	100	158	-5.4	58.0
ENGINEERING, N.E.C.	599	746	644	747	761	7.6	1.9
PHYSICAL SCIENCES	7,806	8,340	8,607	8,768	9,151	3.9	4.4
ASTRONOMY	283	270	263	250	279	-4.0	11.6
CHEMISTRY	4,165	4,604	4,797	4,908	5,192	5.6	5.8
PHYSICS	3,342	3,462	3,532	3,579	3,646	2.4	1.9
PHYSICAL SCIENCES, N.E.C.	16	4	15	31	34	24.7	9.7
ENVIRONMENTAL SCIENCES	3,587	3,770	3,469	3,339	3,534	-2.4	5.8
ATMOSPHERIC SCIENCES	469	489	456	462	434	-.5	-6.1
GEOSCIENCES	1,918	2,022	1,817	1,775	1,979	-2.5	11.5
OCEANOGRAPHY	816	818	791	780	795	-1.5	1.9
ENVIRONMENTAL SCIENCES, N.E.C.	384	441	405	322	326	-5.7	1.2
MATHEMATICAL/COMPUTER SCIENCES	1,642	1,820	1,858	2,036	2,208	7.4	8.4
COMPUTER SCIENCE	817	1,036	1,098	1,191	1,403	13.4	17.8
MATHEMATICS AND APPLIED MATHEMATICS	534	500	484	547	527	.8	-3.7
STATISTICS	291	284	276	298	278	.8	-6.7
LIFE SCIENCES	15,421	15,910	16,362	16,251	16,587	1.8	2.1
AGRICULTURAL SCIENCES	4,449	4,548	4,657	4,592	4,555	1.1	-.8
BIOLOGICAL SCIENCES	9,511	9,786	10,139	10,039	10,318	1.8	2.8
ANATOMY	162	142	138	141	152	-4.5	7.8
BIOCHEMISTRY	1,485	1,455	1,549	1,628	1,770	3.1	8.7
BIOLOGY	1,320	1,443	1,544	1,408	1,523	2.2	8.2
BIOMETRY/EPIDEMIOLOGY	88	117	100	99	100	4.0	1.0
BIOPHYSICS	174	161	124	131	163	-9.0	24.4
BOTANY	1,281	1,284	1,253	1,327	1,165	1.2	-12.2
CELL BIOLOGY	209	210	266	296	353	12.3	19.3
ECOLOGY	254	272	221	233	202	-2.8	-13.3
ENTOMOLOGY/PARASITOLOGY	819	890	806	764	771	-2.3	.9
GENETICS	191	235	252	260	238	10.8	-8.5
MICROBIOLOGY	885	937	1,035	1,024	1,126	5.0	10.0
NUTRITION	1,080	1,152	1,141	1,090	1,088	.3	-.2
PATHOLOGY	172	165	177	207	223	6.4	7.7
PHARMACOLOGY	389	349	438	414	456	2.1	10.1
PHYSIOLOGY	394	417	462	432	388	3.1	-10.2
ZOOLOGY	481	383	438	373	384	-8.1	2.9
BIOSCIENCES, N.E.C.	127	174	195	212	216	18.6	1.9
HEALTH SCIENCES	1,461	1,576	1,564	1,620	1,714	3.5	5.8
ANESTHESIOLOGY	0	0	0	0	0	**	**
CANCER/ONCOLOGY	13	10	0	15	15	4.9	.0
CARDIOLOGY	2	6	3	0	0	-100.0	**
DENTISTRY	22	26	10	12	8	-18.3	-33.3
ENDOCRINOLOGY	7	10	12	10	11	12.6	10.0
GASTROENTEROLOGY	0	0	1	0	0	**	**
HEMATOLOGY	0	1	1	0	2	**	**
NEUROLOGY	54	58	39	56	53	1.2	-5.4
NURSING	75	103	110	132	170	20.7	28.8
OBSTETRICS/GYNECOLOGY	8	0	0	5	5	-14.5	.0
OPHTHALMOLOGY	0	3	7	2	0	**	-100.0
OTORHINOLARYNGOLOGY	0	0	1	0	0	**	**
PEDIATRICS	0	0	0	6	2	**	-66.7
PHARMACEUTICAL SCIENCES	394	403	407	377	409	-1.5	8.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	164	187	235	204	221	7.5	8.3
PSYCHIATRY	20	8	14	5	9	-37.0	80.0
PULMONARY DISEASE	0	0	0	1	0	**	-100.0
RADIOLOGY	31	45	26	35	40	4.1	14.3
SPEECH PATHOLOGY/AUDIOLOGY	293	333	288	325	317	3.5	-2.5
SURGERY	0	4	8	4	14	**	250.0
VETERINARY SCIENCES	169	157	178	166	163	-.6	-1.8
CLINICAL MEDICINE, N.E.C.	36	41	42	60	107	18.6	78.3
HEALTH RELATED, N.E.C.	173	181	184	205	168	5.8	-18.0
PSYCHOLOGY	2,528	2,571	2,890	2,723	2,981	2.5	9.5
SOCIAL SCIENCES	5,530	5,536	5,476	5,209	5,509	-2.0	5.8
AGRICULTURAL ECONOMICS	982	986	949	842	837	-5.0	-.6
ANTHROPOLOGY	402	349	303	315	282	-7.8	-10.5
ECONOMICS (EXCEPT AGRICULTURAL)	1,204	1,205	1,184	1,053	1,173	-4.4	11.4
GEOGRAPHY	219	269	250	226	253	1.1	11.9
HISTORY AND PHILOSOPHY OF SCIENCE	11	14	16	11	7	.0	-36.4
LINGUISTICS	139	145	181	140	137	.2	-2.1
POLITICAL SCIENCE	940	923	927	977	1,082	1.3	10.7
SOCIOLOGY	720	750	751	666	612	-2.6	-8.1
SOCIOLOGY/ANTHROPOLOGY	109	88	132	131	127	6.3	-3.1
SOCIAL SCIENCES, N.E.C.	804	807	783	848	999	1.8	17.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-18.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY FUNDED RESEARCH ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	28,129	29,395	29,207	28,345	29,246	.3	3.2
ENGINEERING	8,014	8,548	8,535	8,577	9,027	2.3	5.2
AEROSPACE	355	375	399	469	541	9.7	15.4
AGRICULTURAL	114	110	131	126	134	3.4	6.3
BIOMEDICAL	129	110	123	168	192	9.2	14.3
CHEMICAL	910	1,056	1,091	1,084	1,172	6.0	8.1
CIVIL	1,110	1,251	1,083	1,070	1,079	-1.2	.8
ELECTRICAL	1,878	1,982	1,971	2,061	2,125	3.1	3.1
ENGINEERING SCIENCE	348	358	377	334	328	-1.4	-1.8
INDUSTRIAL	230	261	243	193	168	-5.7	-13.0
MECHANICAL	1,273	1,240	1,283	1,278	1,428	.1	11.7
METALLURGICAL/MATERIALS	1,013	1,017	1,132	1,067	1,139	1.7	6.7
MINING	59	87	109	76	55	8.8	-27.6
NUCLEAR	260	233	238	223	238	-5.0	6.7
PETROLEUM	40	44	45	37	41	-2.6	10.8
ENGINEERING, N.E.C.	295	424	310	391	387	9.8	-1.0
PHYSICAL SCIENCES	6,512	6,980	7,271	7,095	7,468	2.9	5.3
ASTRONOMY	232	236	229	202	242	-4.5	19.8
CHEMISTRY	3,328	3,762	3,880	3,936	4,022	5.8	2.2
PHYSICS	2,943	2,978	3,160	2,953	3,196	.1	8.2
PHYSICAL SCIENCES, N.E.C.	9	4	2	4	8	-23.7	100.0
ENVIRONMENTAL SCIENCES	2,706	2,702	2,402	2,323	2,344	-5.0	.9
ATMOSPHERIC SCIENCES	447	445	406	412	362	-2.7	-12.1
GEOSCIENCES	1,420	1,451	1,195	1,176	1,261	-6.1	7.2
OCEANOGRAPHY	610	589	553	543	560	-3.8	3.1
ENVIRONMENTAL SCIENCES, N.E.C.	229	217	248	192	161	-5.7	-16.1
MATHEMATICAL/COMPUTER SCIENCES	1,005	1,099	1,055	1,140	1,195	4.3	4.8
COMPUTER SCIENCE	581	678	715	763	843	9.5	10.5
MATHEMATICS AND APPLIED MATHEMATICS	313	302	258	274	273	-4.3	-.4
STATISTICS	111	119	82	103	79	-2.5	-23.3
LIFE SCIENCES	7,230	7,634	7,606	7,287	7,307	.3	.3
AGRICULTURAL SCIENCES	1,480	1,570	1,479	1,438	1,322	-1.0	-8.1
BIOLOGICAL SCIENCES	5,116	5,430	5,478	5,252	5,361	.9	2.1
ANATOMY	76	80	78	82	89	2.6	8.5
BIOCHEMISTRY	1,042	1,026	1,126	1,149	1,249	3.3	8.7
BIOLOGY	860	966	937	865	958	.2	10.8
BIOMETRY/EPIDEMIOLOGY	53	81	63	50	64	-1.9	28.0
BIOPHYSICS	126	106	95	84	102	-12.6	21.4
BOTANY	504	536	449	507	426	.2	-16.0
CELL BIOLOGY	159	164	202	225	230	12.3	2.2
ECOLOGY	141	148	112	111	114	-7.7	2.7
ENTOMOLOGY/PARASITOLOGY	215	287	258	218	228	.5	4.6
GENETICS	92	127	121	121	123	9.6	1.7
MICROBIOLOGY	620	673	683	616	667	-.2	8.3
NUTRITION	409	439	434	399	353	-.8	-11.5
PATHOLOGY	86	91	103	105	105	6.9	.0
PHARMACOLOGY	197	171	215	189	178	-1.4	-5.8
PHYSIOLOGY	192	225	274	226	186	5.6	-17.7
ZOOLOGY	287	241	219	198	190	-11.6	-4.0
BIOSCIENCES, N.E.C.	57	69	109	107	99	23.4	-7.5
HEALTH SCIENCES	634	634	649	597	624	-2.0	4.5
ANESTHESIOLOGY	0	0	0	0	0	**	**
CANCER/ONCOLOGY	11	10	0	15	13	10.9	-13.3
CARDIOLOGY	2	3	0	0	0	-100.0	**
DENTISTRY	8	5	7	0	0	-100.0	**
ENDOCRINOLOGY	6	10	12	10	9	18.6	-10.0
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0
NEUROLOGY	39	39	28	33	39	-5.4	18.2
NURSING	36	35	48	32	59	-3.9	84.4
OBSTETRICS/GYNECOLOGY	4	0	0	5	5	-5.9	.0
OPHTHALMOLOGY	0	0	7	2	0	**	-100.0
OTORHINOLARYNGOLOGY	0	0	1	0	0	**	**
PEDIATRICS	0	0	0	0	0	**	**
PHARMACEUTICAL SCIENCES	183	195	219	200	199	3.0	-.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	82	92	75	44	57	-18.7	29.5
PSYCHIATRY	20	7	11	5	8	-37.0	60.0
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	18	25	16	19	16	1.8	-15.8
SPEECH PATHOLOGY/AUDIOLOGY	122	125	119	116	90	-1.7	-22.4
SURGERY	0	2	7	2	12	**	500.0
VETERINARY SCIENCES	51	44	54	43	38	-5.5	-11.6
CLINICAL MEDICINE, N.E.C.	14	11	8	30	54	28.9	80.0
HEALTH RELATED, N.E.C.	36	31	37	41	25	4.4	-39.0
PSYCHOLOGY	1,170	942	1,036	927	946	-7.5	2.0
SOCIAL SCIENCES	1,492	1,490	1,302	996	959	-12.6	-3.7
AGRICULTURAL ECONOMICS	339	388	371	314	329	-2.5	4.8
ANTHROPOLOGY	140	105	123	90	70	-13.7	-22.2
ECONOMICS (EXCEPT AGRICULTURAL)	290	286	181	126	125	-24.3	-.8
GEOGRAPHY	70	85	72	65	58	-2.4	-10.8
HISTORY AND PHILOSOPHY OF SCIENCE	2	1	0	0	0	-100.0	**
LINGUISTICS	44	44	50	33	38	-9.1	15.2
POLITICAL SCIENCE	105	93	42	58	53	-17.9	-8.6
SOCIOLOGY	278	313	308	196	161	-11.0	-17.9
SOCIOLOGY/ANTHROPOLOGY	18	17	18	10	12	-17.8	20.0
SOCIAL SCIENCES, N.E.C.	206	156	137	104	113	-20.4	8.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-19.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY FUNDED RESEARCH ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	21,296	22,559	23,937	24,662	26,424	5.0	7.1
ENGINEERING	4,897	5,459	5,947	6,124	6,673	7.7	9.0
AEROSPACE	148	205	184	148	150	.0	1.4
AGRICULTURAL	233	252	267	301	299	8.9	-.7
BIOMEDICAL	79	105	130	136	134	19.8	-1.5
CHEMICAL	717	789	927	1,015	1,083	12.3	6.7
CIVIL	910	954	1,119	1,046	1,283	4.8	22.7
ELECTRICAL	718	869	920	889	1,074	7.4	20.8
ENGINEERING SCIENCE	80	80	116	163	114	26.1	-30.1
INDUSTRIAL	333	330	302	363	290	2.9	-20.1
MECHANICAL	694	812	855	935	945	10.4	1.1
METALLURGICAL/MATERIALS	307	373	426	455	542	14.0	19.1
MINING	20	33	52	65	70	48.1	7.7
NUCLEAR	276	275	242	189	198	-11.9	4.8
PETROLEUM	78	60	73	63	117	-6.9	85.7
ENGINEERING, N.E.C.	304	322	334	356	374	5.4	5.1
PHYSICAL SCIENCES	1,294	1,360	1,336	1,673	1,683	8.9	.6
ASTRONOMY	51	34	34	48	37	-2.0	-22.9
CHEMISTRY	837	842	917	972	1,170	5.1	20.4
PHYSICS	399	484	372	626	450	16.2	-28.1
PHYSICAL SCIENCES, N.E.C.	7	0	13	27	26	56.8	-3.7
ENVIRONMENTAL SCIENCES	881	1,068	1,067	1,016	1,190	4.9	17.1
ATMOSPHERIC SCIENCES	22	44	50	50	72	31.5	44.0
GEOSCIENCES	498	571	622	599	718	6.3	19.9
OCEANOGRAPHY	206	229	238	237	235	4.8	-.8
ENVIRONMENTAL SCIENCES, N.E.C.	155	224	157	130	165	-5.7	26.9
MATHEMATICAL/COMPUTER SCIENCES	637	721	803	896	1,013	12.0	13.1
COMPUTER SCIENCE	236	358	383	428	560	21.9	30.8
MATHEMATICS AND APPLIED MATHEMATICS	221	198	226	273	254	7.3	-7.0
STATISTICS	180	165	194	195	199	2.7	2.1
LIFE SCIENCES	8,191	8,276	8,756	8,964	9,280	3.1	3.5
AGRICULTURAL SCIENCES	2,969	2,978	3,178	3,154	3,233	2.0	2.5
BIOLOGICAL SCIENCES	4,395	4,356	4,661	4,787	4,957	2.9	3.6
ANATOMY	86	62	60	59	63	-11.8	6.8
BIOCHEMISTRY	443	429	423	479	521	2.6	8.8
BIOLOGY	460	477	607	543	565	5.7	4.1
BIOMETRY/EPIDEMIOLOGY	35	36	37	49	36	11.9	-26.5
BIOPHYSICS	48	55	29	47	61	-.7	29.8
BOTANY	777	748	804	820	739	1.8	-9.9
CELL BIOLOGY	90	46	64	71	123	12.4	73.2
ECOLOGY	113	124	109	122	88	2.6	-27.9
ENTOMOLOGY/PARASITOLOGY	604	603	548	546	543	-3.3	-.5
GENETICS	99	108	131	139	115	12.0	-17.3
MICROBIOLOGY	265	264	352	408	459	15.5	12.5
NUTRITION	671	713	707	691	735	1.0	6.4
PATHOLOGY	86	74	74	102	118	5.9	15.7
PHARMACOLOGY	192	178	223	225	278	5.4	23.6
PHYSIOLOGY	202	192	188	206	202	.7	-1.9
ZOOLOGY	194	142	219	175	194	-3.4	10.9
BIOSCIENCES, N.E.C.	70	105	86	105	117	14.5	11.4
HEALTH SCIENCES	827	942	917	1,023	1,090	7.3	6.5
ANESTHESIOLOGY	0	0	0	0	0	0	0
CANCER/ONCOLOGY	2	0	0	0	2	-100.0	**
CARDIOLOGY	0	3	3	0	0	**	**
DENTISTRY	14	21	3	12	8	-5.0	-33.3
ENDOCRINOLOGY	1	0	0	0	2	-100.0	**
GASTROENTEROLOGY	0	0	1	0	0	**	**
HEMATOLOGY	0	1	1	0	2	**	**
NEUROLOGY	15	19	11	23	14	15.3	-39.1
NURSING	39	68	62	100	111	36.9	11.0
OBSTETRICS/GYNECOLOGY	2	0	0	0	0	-100.0	**
OPHTHALMOLOGY	0	3	0	0	0	**	**
OTORHINOLARYNGOLOGY	0	0	0	0	0	**	**
PEDIATRICS	0	0	0	6	2	**	-66.7
PHARMACEUTICAL SCIENCES	211	208	188	177	210	-5.7	18.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	82	95	160	160	164	25.0	2.5
PSYCHIATRY	0	1	3	0	1	**	**
PULMONARY DISEASE	0	0	0	1	0	**	-100.0
RADIOLOGY	13	20	10	16	24	7.2	50.0
SPEECH PATHOLOGY/AUDIOLOGY	171	208	169	209	227	6.9	8.6
SURGERY	0	2	1	2	2	**	.0
VETERINARY SCIENCES	118	113	124	123	125	1.4	1.4
CLINICAL MEDICINE, N.E.C.	22	30	34	30	53	10.9	76.7
HEALTH RELATED, N.E.C.	137	150	147	164	143	6.2	-12.8
PSYCHOLOGY	1,358	1,629	1,854	1,796	2,035	9.8	13.3
SOCIAL SCIENCES	4,038	4,046	4,174	4,213	4,550	1.4	8.0
AGRICULTURAL ECONOMICS	643	598	578	528	508	-6.4	-3.8
ANTHROPOLOGY	262	244	180	225	212	-4.9	-5.8
ECONOMICS (EXCEPT AGRICULTURAL)	914	919	1,003	927	1,048	.5	13.1
GEOGRAPHY	149	184	178	161	195	2.6	21.1
HISTORY AND PHILOSOPHY OF SCIENCE	9	13	16	11	7	4.9	-36.4
LINGUISTICS	95	99	131	107	99	4.0	-7.5
POLITICAL SCIENCE	835	830	885	919	1,029	3.2	12.0
SOCIOLOGY	442	437	443	470	451	2.1	-4.0
SOCIOLOGY/ANTHROPOLOGY	91	71	114	121	115	10.0	-5.0
SOCIAL SCIENCES, N.E.C.	598	651	646	744	886	7.6	19.1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-20.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH TEACHING ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	52,033	54,134	56,023	58,652	60,599	4.1	3.3
ENGINEERING	6,653	7,402	8,289	9,206	10,123	11.4	10.0
AEROSPACE	178	189	218	228	278	8.6	21.9
AGRICULTURAL	56	55	42	45	53	-7.0	17.8
BIOMEDICAL	93	108	95	90	109	-1.1	21.1
CHEMICAL	765	835	935	1,048	1,129	11.1	7.7
CIVIL	1,139	1,280	1,309	1,496	1,501	9.5	.3
ELECTRICAL	1,880	2,124	2,437	2,588	3,031	11.2	17.1
ENGINEERING SCIENCE	151	193	184	203	230	10.4	13.3
INDUSTRIAL	521	537	624	746	686	12.7	-8.0
MECHANICAL	1,174	1,281	1,451	1,667	2,001	12.4	20.0
METALLURGICAL/MATERIALS	197	236	246	258	275	9.4	6.6
MINING	34	29	57	70	90	27.2	28.6
NUCLEAR	124	94	105	137	129	3.4	-5.8
PETROLEUM	37	47	54	62	67	18.8	8.1
ENGINEERING, N.E.C.	304	394	532	568	544	23.2	-4.2
PHYSICAL SCIENCES	9,950	10,248	10,304	10,711	11,284	2.5	5.3
ASTRONOMY	173	174	181	189	193	3.0	2.1
CHEMISTRY	6,395	6,575	6,480	6,928	7,334	2.7	5.9
PHYSICS	3,358	3,476	3,616	3,574	3,740	2.1	4.6
PHYSICAL SCIENCES, N.E.C.	24	23	27	20	17	-5.9	-15.0
ENVIRONMENTAL SCIENCES	2,614	2,672	2,651	2,849	2,886	2.9	1.3
ATMOSPHERIC SCIENCES	79	78	70	82	89	1.3	8.5
GEOSCIENCES	2,086	2,145	2,108	2,280	2,331	3.0	2.2
OCEANOGRAPHY	144	162	146	166	171	4.9	3.0
ENVIRONMENTAL SCIENCES, N.E.C.	305	287	327	321	295	1.7	-8.1
MATHEMATICAL/COMPUTER SCIENCES	6,769	7,088	7,530	8,148	8,871	6.4	8.9
COMPUTER SCIENCE	1,354	1,481	1,782	2,074	2,412	15.3	16.3
MATHEMATICS AND APPLIED MATHEMATICS	4,829	4,978	5,113	5,438	5,764	4.0	6.0
STATISTICS	586	629	635	636	695	2.8	9.3
LIFE SCIENCES	12,421	12,710	12,521	12,920	12,772	1.3	-1.1
AGRICULTURAL SCIENCES	850	923	824	923	900	2.8	-2.5
BIOLOGICAL SCIENCES	9,596	9,752	9,636	9,746	9,644	.5	-1.0
ANATOMY	332	286	306	309	281	-2.4	-9.1
BIOCHEMISTRY	620	713	726	687	692	3.5	.7
BIOLOGY	3,814	3,852	3,695	3,767	3,858	-.4	2.4
BIOMETRY/EPIDEMIOLOGY	46	45	55	41	43	-3.8	4.9
BIOPHYSICS	23	43	35	38	25	18.2	-34.2
BOTANY	911	916	876	919	851	.3	-7.4
CELL BIOLOGY	123	120	144	167	179	10.7	7.2
ECOLOGY	298	314	333	302	308	.4	2.0
ENTOMOLOGY/PARASITOLOGY	162	166	174	155	158	-1.5	1.9
GENETICS	106	111	119	128	128	6.5	.0
MICROBIOLOGY	787	860	876	880	917	3.8	4.2
NUTRITION	289	284	268	261	258	-3.3	-1.1
PATHOLOGY	74	76	69	96	69	9.1	-28.1
PHARMACOLOGY	246	242	244	282	240	4.7	-14.9
PHYSIOLOGY	371	357	362	363	356	-.7	-1.9
ZOOLOGY	1,242	1,221	1,172	1,158	1,072	-2.3	-7.4
BIOSCIENCES, N.E.C.	152	144	182	193	209	8.3	8.3
HEALTH SCIENCES	1,975	2,035	2,061	2,251	2,228	4.5	-1.0
ANESTHESIOLOGY	0	0	0	0	0	0	0
CANCER/ONCOLOGY	1	1	0	0	0	-100.0	**
CARDIOLOGY	0	0	0	0	0	0	0
DENTISTRY	166	176	134	129	171	-8.1	32.6
ENDOCRINOLOGY	10	6	6	6	9	-15.7	50.0
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	0	0	1	0	0	**	**
NEUROLOGY	4	3	5	1	8	-37.0	700.0
NURSING	208	210	265	284	327	10.9	15.1
OBSTETRICS/GYNECOLOGY	1	0	0	0	0	-100.0	**
OPHTHALMOLOGY	2	0	4	3	3	14.5	.0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	0	1	1	0	0	**	**
PHARMACEUTICAL SCIENCES	576	572	611	653	640	4.3	-2.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	91	81	81	91	80	.0	-12.1
PSYCHIATRY	1	0	0	1	1	.0	.0
PULMONARY DISEASE	1	0	0	0	0	-100.0	**
RADIOLOGY	15	15	5	0	1	-100.0	**
SPEECH PATHOLOGY/AUDIOLOGY	743	764	732	815	765	3.1	-6.1
SURGERY	0	2	3	12	14	**	16.7
VETERINARY SCIENCES	50	56	48	51	33	.7	-35.3
CLINICAL MEDICINE, N.E.C.	11	20	43	48	41	63.4	-14.6
HEALTH RELATED, N.E.C.	95	128	122	157	135	18.2	-14.0
PSYCHOLOGY	4,570	4,779	5,014	4,928	5,029	2.5	2.0
SOCIAL SCIENCES	9,056	9,235	9,714	9,890	9,634	3.0	-2.6
AGRICULTURAL ECONOMICS	94	111	123	138	128	13.7	-7.2
ANTHROPOLOGY	844	829	866	911	909	2.6	-.2
ECONOMICS (EXCEPT AGRICULTURAL)	2,183	2,488	2,704	2,911	2,807	10.1	-3.6
GEOGRAPHY	765	758	881	864	846	4.1	-2.1
HISTORY AND PHILOSOPHY OF SCIENCE	67	77	68	80	68	6.1	-15.0
LINGUISTICS	725	684	700	627	650	-4.7	3.7
POLITICAL SCIENCE	2,042	1,853	2,014	1,945	1,826	-1.6	-6.1
SOCIOLOGY	1,511	1,552	1,570	1,537	1,555	.6	1.2
SOCIOLOGY/ANTHROPOLOGY	218	206	196	207	184	-1.7	-11.1
SOCIAL SCIENCES, N.E.C.	607	677	592	670	661	3.3	-1.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-21.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY FUNDED TEACHING ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	609	680	622	431	505	-10.9	17.2
ENGINEERING	67	139	100	40	42	-15.8	5.0
AEROSPACE	15	0	19	1	0	-59.5	-100.0
AGRICULTURAL	0	10	3	0	0	**	**
BIOMEDICAL	0	1	0	0	0	**	**
CHEMICAL	13	44	31	8	9	-14.9	12.5
CIVIL	14	46	12	15	13	2.3	-13.3
ELECTRICAL	1	20	6	2	4	26.0	100.0
ENGINEERING SCIENCE	4	0	2	2	5	-20.6	150.0
INDUSTRIAL	3	1	9	1	0	-30.7	-100.0
MECHANICAL	4	9	8	5	2	7.7	-60.0
METALLURGICAL/MATERIALS	7	0	0	0	3	-100.0	**
MINING	0	1	6	3	1	**	-66.7
NUCLEAR	0	3	0	0	1	**	**
PETROLEUM	3	0	0	1	0	-30.7	-100.0
ENGINEERING, N.E.C.	3	4	4	2	4	-12.6	100.0
PHYSICAL SCIENCES	71	63	51	46	45	-13.5	-2.2
ASTRONOMY	1	0	8	1	0	.0	-100.0
CHEMISTRY	57	50	22	28	30	-21.1	7.1
PHYSICS	12	13	21	17	15	12.3	-11.8
PHYSICAL SCIENCES, N.E.C.	1	0	0	0	0	-100.0	**
ENVIRONMENTAL SCIENCES	31	29	16	10	20	-31.4	100.0
ATMOSPHERIC SCIENCES	1	5	0	0	0	-100.0	**
GEOSCIENCES	26	19	15	8	18	-32.5	125.0
OCEANOGRAPHY	3	3	0	0	2	-100.0	**
ENVIRONMENTAL SCIENCES, N.E.C.	1	1	1	2	0	26.0	-100.0
MATHEMATICAL/COMPUTER SCIENCES	13	27	44	47	22	53.5	-53.2
COMPUTER SCIENCE	1	0	1	25	5	192.4	-80.0
MATHEMATICS AND APPLIED MATHEMATICS	10	27	43	22	17	30.1	-22.7
STATISTICS	2	0	0	0	0	-100.0	**
LIFE SCIENCES	333	279	266	168	243	-20.4	44.6
AGRICULTURAL SCIENCES	8	24	10	8	20	.0	150.0
BIOLOGICAL SCIENCES	184	128	142	76	127	-25.8	67.1
ANATOMY	7	3	9	1	4	-47.7	300.0
BIOCHEMISTRY	33	31	25	11	39	-30.7	254.5
BIOLOGY	81	19	31	19	18	-38.3	-5.3
BIOMETRY/EPIDEMIOLOGY	0	1	2	0	2	**	**
BIOPHYSICS	0	5	0	1	1	**	.0
BOTANY	15	12	11	4	9	-35.6	125.0
CELL BIOLOGY	0	4	3	0	4	**	**
ECOLOGY	0	0	7	2	1	**	-50.0
ENTOMOLOGY/PARASITOLOGY	2	1	3	1	1	-20.6	.0
GENETICS	2	3	0	0	1	-100.0	**
MICROBIOLOGY	8	25	14	14	25	20.5	78.6
NUTRITION	3	5	4	4	3	10.1	-25.0
PATHOLOGY	3	2	0	0	0	-100.0	**
PHARMACOLOGY	22	12	16	12	12	-18.3	.0
PHYSIOLOGY	4	1	5	7	6	20.5	-14.3
ZOOLOGY	2	2	11	0	0	-100.0	**
BIOSCIENCES, N.E.C.	4	2	1	0	1	-100.0	**
HEALTH SCIENCES	139	127	114	84	96	-15.5	14.3
ANESTHESIOLOGY	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0
DENTISTRY	19	19	7	5	7	-35.9	40.0
ENDOCRINOLOGY	0	0	0	0	0	**	**
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	2	**	**
NURSING	36	22	34	34	29	-1.9	-14.7
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	**	**
OPHTHALMOLOGY	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	0	1	1	0	0	**	**
PHARMACEUTICAL SCIENCES	8	11	13	2	0	-37.0	-100.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	12	4	4	5	3	-25.3	-40.0
PSYCHIATRY	0	0	0	0	1	**	**
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	42	47	39	27	53	-13.7	96.3
SURGERY	0	0	0	0	0	**	**
VETERINARY SCIENCES	9	6	5	1	0	-51.9	-100.0
CLINICAL MEDICINE, N.E.C.	0	8	5	8	0	**	-100.0
HEALTH RELATED, N.E.C.	13	9	6	2	1	-46.4	-50.0
PSYCHOLOGY	43	50	65	55	54	8.6	-1.8
SOCIAL SCIENCES	51	93	80	65	79	8.4	21.5
AGRICULTURAL ECONOMICS	1	1	4	0	14	-100.0	**
ANTHROPOLOGY	7	9	1	3	6	-24.6	100.0
ECONOMICS (EXCEPT AGRICULTURAL)	1	19	15	12	26	128.9	116.7
GEOGRAPHY	11	8	1	8	6	-10.1	-25.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	4	0	2	2	**	.0
LINGUISTICS	3	3	6	1	4	-30.7	300.0
POLITICAL SCIENCE	10	22	13	6	9	-15.7	50.0
SOCIOLOGY	8	5	18	18	9	31.0	-50.0
SOCIOLOGY/ANTHROPOLOGY	3	6	0	5	1	18.6	-80.0
SOCIAL SCIENCES, N.E.C.	7	20	22	10	2	12.6	-80.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-22.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY FUNDED TEACHING ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	51,424	53,454	55,401	58,221	60,094	4.2	3.2
ENGINEERING	6,586	7,263	8,189	9,166	10,081	11.6	10.0
AEROSPACE	163	189	199	227	278	11.7	22.5
AGRICULTURAL	96	45	39	45	53	-7.0	17.8
BIOMEDICAL	93	107	95	90	109	-1.1	21.1
CHEMICAL	752	791	904	1,040	1,120	11.4	7.7
CIVIL	1,125	1,234	1,297	1,481	1,488	9.6	.5
ELECTRICAL	1,879	2,104	2,431	2,586	3,027	11.2	17.1
ENGINEERING SCIENCE	147	193	182	201	225	11.0	11.9
INDUSTRIAL	518	536	615	745	686	12.9	-7.9
MECHANICAL	1,170	1,272	1,443	1,662	1,999	12.4	20.3
METALLURGICAL/MATERIALS	190	236	244	258	272	10.7	5.4
MINING	34	28	51	67	89	25.4	32.8
NUCLEAR	124	91	105	137	128	3.4	-6.6
PETROLEUM	34	47	54	61	67	21.5	9.8
ENGINEERING, N.E.C.	301	390	528	566	540	23.4	-4.6
PHYSICAL SCIENCES	9,879	10,185	10,253	10,665	11,239	2.6	5.4
ASTRONOMY	172	174	173	188	193	3.0	2.7
CHEMISTRY	6,338	6,525	6,458	6,900	7,304	2.9	5.9
PHYSICS	3,346	3,463	3,595	3,557	3,725	2.1	4.7
PHYSICAL SCIENCES, N.E.C.	23	23	27	20	17	-4.6	-15.0
ENVIRONMENTAL SCIENCES	2,583	2,643	2,635	2,839	2,866	3.2	1.0
ATMOSPHERIC SCIENCES	78	72	70	82	89	1.7	8.5
GEOSCIENCES	2,060	2,126	2,093	2,272	2,313	3.3	1.8
OCEANOGRAPHY	141	159	146	166	169	5.6	1.8
ENVIRONMENTAL SCIENCES, N.E.C.	304	286	326	319	295	1.6	-7.5
MATHEMATICAL/COMPUTER SCIENCES	6,756	7,061	7,486	8,101	8,849	6.2	9.2
COMPUTER SCIENCE	1,353	1,481	1,781	2,049	2,407	14.8	17.5
MATHEMATICS AND APPLIED MATHEMATICS	4,819	4,951	5,070	5,416	5,747	4.0	6.1
STATISTICS	584	629	635	636	695	2.9	9.3
LIFE SCIENCES	12,088	12,431	12,255	12,752	12,529	1.8	-1.7
AGRICULTURAL SCIENCES	842	899	814	915	880	2.8	-3.8
BIOLOGICAL SCIENCES	9,410	9,624	9,494	9,670	9,517	.9	-1.6
ANATOMY	325	283	297	308	277	-1.8	-10.1
BIOCHEMISTRY	587	682	701	676	653	4.8	-3.4
BIOLOGY	3,733	3,833	3,664	3,748	3,840	.1	2.5
BIOMETRY/EPIDEMIOLOGY	46	44	53	41	41	-3.8	.0
BIOPHYSICS	23	38	35	37	24	17.2	-35.1
BOTANY	896	904	865	915	842	.7	-8.0
CELL BIOLOGY	123	116	141	167	175	10.7	4.8
ECOLOGY	298	314	326	300	307	.2	2.3
ENTOMOLOGY/PARASITOLOGY	160	165	171	154	157	-1.3	1.9
GENETICS	104	108	119	128	127	7.2	-.8
MICROBIOLOGY	779	835	862	866	892	3.6	3.0
NUTRITION	286	281	264	257	255	-3.5	-.8
PATHOLOGY	71	74	69	96	69	10.6	-28.1
PHARMACOLOGY	224	230	228	270	228	6.4	-15.6
PHYSIOLOGY	367	356	357	356	350	-1.0	-1.7
ZOOLOGY	1,240	1,219	1,161	1,158	1,072	-2.3	-7.4
BIOSCIENCES, N.E.C.	148	142	181	193	208	9.3	7.8
HEALTH SCIENCES	1,836	1,908	1,947	2,167	2,132	5.7	-1.6
ANESTHESIOLOGY	0	0	0	0	0	0	0
CANCER/ONCOLOGY	1	1	0	0	0	-100.0	**
CARDIOLOGY	0	0	0	0	0	0	0
DENTISTRY	147	157	127	124	164	-5.5	32.3
ENDOCRINOLOGY	10	6	6	6	9	-15.7	50.0
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	0	0	1	0	0	**	**
NEUROLOGY	4	3	5	1	6	-37.0	500.0
NURSING	172	188	231	250	293	13.3	19.2
OBSTETRICS/GYNECOLOGY	1	0	0	0	0	-100.0	**
OPHTHALMOLOGY	2	0	4	3	3	14.5	.0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	**	**
PHARMACEUTICAL SCIENCES	568	561	598	651	640	4.7	-1.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	79	77	77	86	77	2.9	-10.5
PSYCHIATRY	1	0	0	1	0	.0	-100.0
PULMONARY DISEASE	1	0	0	0	0	-100.0	**
RADIOLOGY	15	15	5	0	1	-100.0	**
SPEECH PATHOLOGY/AUDIOLOGY	701	717	693	788	712	4.0	-9.6
SURGERY	0	2	3	12	14	**	16.7
VETERINARY SCIENCES	41	50	43	50	33	6.8	-34.0
CLINICAL MEDICINE, N.E.C.	11	12	38	40	41	53.8	2.5
HEALTH RELATED, N.E.C.	82	119	116	155	134	23.6	-13.5
PSYCHOLOGY	4,527	4,729	4,949	4,873	4,975	2.5	2.1
SOCIAL SCIENCES	9,005	9,142	9,634	9,825	9,555	2.9	-2.7
AGRICULTURAL ECONOMICS	93	110	119	138	114	14.1	-17.4
ANTHROPOLOGY	837	824	865	908	903	2.8	-.6
ECONOMICS (EXCEPT AGRICULTURAL)	2,182	2,469	2,689	2,899	2,781	9.9	-4.1
GEOGRAPHY	754	750	880	856	840	4.3	-1.9
HISTORY AND PHILOSOPHY OF SCIENCE	67	73	68	78	66	5.2	-15.4
LINGUISTICS	722	681	694	626	646	-4.6	3.2
POLITICAL SCIENCE	2,032	1,831	2,001	1,939	1,817	-1.5	-6.3
SOCIOLOGY	1,503	1,547	1,552	1,519	1,546	.4	1.8
SOCIOLOGY/ANTHROPOLOGY	215	200	196	202	183	-2.1	-9.4
SOCIAL SCIENCES, N.E.C.	600	657	570	660	659	3.2	-.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-23.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH OTHER TYPES OF SUPPORT IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	100,621	103,013	105,138	106,565	111,105	1.9	4.3
ENGINEERING	16,389	17,005	18,364	20,826	23,704	8.3	13.8
AEROSPACE	381	453	552	530	675	11.6	27.4
AGRICULTURAL	171	130	185	197	198	4.8	.5
BIOMEDICAL	351	329	376	416	442	5.8	6.3
CHEMICAL	1,125	1,080	1,230	1,433	1,466	8.4	2.3
CIVIL	4,098	4,047	4,843	5,354	5,586	9.3	4.3
ELECTRICAL	3,802	4,117	4,023	4,832	5,781	8.3	19.6
ENGINEERING SCIENCE	330	358	336	352	389	2.2	10.5
INDUSTRIAL	1,304	2,348	2,168	2,199	2,692	-1.5	22.4
MECHANICAL	725	1,914	2,194	2,679	3,242	15.8	21.0
METALLURGICAL/MATERIALS	339	302	340	368	429	2.8	16.6
MINING	99	74	79	110	156	23.1	41.8
NUCLEAR	291	282	304	335	321	4.8	-4.2
PETROLEUM	105	133	148	212	273	26.4	28.8
ENGINEERING, N.E.C.	1,308	1,438	1,566	1,809	2,054	11.4	13.5
PHYSICAL SCIENCES	2,449	2,118	2,096	2,224	2,452	-3.2	10.3
ASTRONOMY	63	46	49	64	42	.5	-34.4
CHEMISTRY	1,341	1,098	1,027	1,080	1,132	-7.0	4.8
PHYSICS	1,004	920	980	1,049	1,243	1.5	18.5
PHYSICAL SCIENCES, N.E.C.	41	54	40	31	35	-8.9	12.9
ENVIRONMENTAL SCIENCES	3,397	3,392	3,796	4,093	4,469	6.4	9.2
ATMOSPHERIC SCIENCES	153	161	197	202	220	9.7	8.9
GEOSCIENCES	2,075	2,068	2,361	2,692	3,100	9.1	15.2
OCEANOGRAPHY	394	420	508	436	444	3.4	1.8
ENVIRONMENTAL SCIENCES, N.E.C.	775	743	730	763	705	-.5	-7.6
MATHEMATICAL/COMPUTER SCIENCES	5,711	6,306	6,899	8,512	9,226	14.2	8.4
COMPUTER SCIENCE	3,243	3,700	4,068	5,421	6,326	18.7	16.7
MATHEMATICS AND APPLIED MATHEMATICS	2,085	2,177	2,308	2,556	2,433	7.0	-4.8
STATISTICS	383	429	523	535	467	11.8	-12.7
LIFE SCIENCES	25,830	26,310	26,443	25,304	25,738	-.7	1.7
AGRICULTURAL SCIENCES	3,762	3,724	3,764	3,573	3,584	-1.7	.4
BIOLOGICAL SCIENCES	10,773	10,126	9,729	9,274	9,192	-4.9	-.9
ANATOMY	268	282	234	241	239	-3.5	-.8
BIOCHEMISTRY	497	507	460	521	500	1.6	-4.0
BIOLOGY	3,543	2,959	2,865	2,551	2,439	-10.4	-4.4
BIOMETRY/EPIDEMIOLOGY	490	523	415	395	384	-6.9	-2.8
BIOPHYSICS	86	79	123	93	88	2.6	-5.4
BOTANY	801	7[illegible]	700	692	717	-4.8	3.6
CELL BIOLOGY	103	104	96	71	81	-11.7	14.1
ECOLOGY	203	252	259	262	213	8.9	-18.7
ENTOMOLOGY/PARASITOLOGY	352	315	306	272	251	-8.2	-7.7
GENETICS	224	176	193	215	237	-1.4	10.2
MICROBIOLOGY	854	903	766	748	756	-4.3	1.1
NUTRITION	1,272	1,196	1,410	1,389	1,360	3.0	-2.1
PATHOLOGY	443	452	389	358	437	-6.9	22.1
PHARMACOLOGY	356	423	340	365	406	.8	11.2
PHYSIOLOGY	564	516	569	531	524	-2.0	-1.3
ZOOLOGY	512	486	442	398	405	-8.1	1.8
BIOSCIENCES, N.E.C.	205	183	162	172	155	-5.7	-9.9
HEALTH SCIENCES	11,295	12,440	12,950	12,457	12,960	3.3	4.0
ANESTHESIOLOGY	15	13	15	19	27	8.2	42.1
CANCER/ONCOLOGY	12	8	48	5	1	-25.3	-80.0
CARDIOLOGY	0	18	25	25	21	∞	-16.0
DENTISTRY	575	548	471	388	398	-12.3	2.6
ENDOCRINOLOGY	6	12	8	5	19	-5.9	280.0
GASTROENTEROLOGY	0	0	0	0	0	∞	∞
HEMATOLOGY	9	6	5	5	6	-17.8	20.0
NEUROLOGY	30	53	22	25	35	-5.9	40.0
NURSING	2,323	2,407	3,008	2,931	2,868	8.1	-2.1
OBSTETRICS/GYNECOLOGY	4	10	4	5	2	7.7	-60.0
OPHTHALMOLOGY	1	2	2	1	2	.0	100.0
OTORHINOLARYNGOLOGY	2	5	0	0	1	-100.0	∞
PEDIATRICS	51	53	52	76	75	14.2	-1.3
PHARMACEUTICAL SCIENCES	408	440	398	431	426	1.8	-1.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,248	2,310	2,329	2,419	2,519	2.5	4.1
PSYCHIATRY	50	16	18	22	26	-23.9	18.2
PULMONARY DISEASE	0	2	0	0	0	∞	∞
RADIOLOGY	87	98	97	63	66	-10.2	4.8
SPEECH PATHOLOGY/AUDIOLOGY	3,131	3,573	3,522	3,487	3,513	3.7	.7
SURGERY	25	38	7	14	21	-17.6	50.0
VETERINARY SCIENCES	140	96	89	97	92	-11.5	-5.2
CLINICAL MEDICINE, N.E.C.	98	156	89	108	132	3.3	22.2
HEALTH RELATED, N.E.C.	2,080	2,603	2,741	2,331	2,710	3.9	16.3
PSYCHOLOGY	14,977	15,733	15,561	15,141	16,114	.4	6.4
SOCIAL SCIENCES	31,868	32,149	31,979	30,465	29,402	-1.5	-3.5
AGRICULTURAL ECONOMICS	731	750	768	793	858	2.8	8.2
ANTHROPOLOGY	2,508	2,623	2,416	2,224	2,161	-3.9	-2.8
ECONOMICS (EXCEPT AGRICULTURAL)	3,577	4,192	4,337	4,363	3,987	6.8	-8.6
GEOGRAPHY	888	956	917	854	925	-1.3	8.3
HISTORY AND PHILOSOPHY OF SCIENCE	88	83	76	68	85	-8.2	25.0
LINGUISTICS	850	1,034	1,000	1,016	1,122	6.1	10.4
POLITICAL SCIENCE	8,559	7,955	8,738	8,446	8,102	-.4	-4.1
SOCIOLOGY	2,330	2,392	2,124	1,776	1,814	-8.7	2.1
SOCIOLOGY/ANTHROPOLOGY	235	268	199	252	284	2.4	12.7
SOCIAL SCIENCES, N.E.C.	12,102	11,896	11,404	10,673	10,064	-4.1	-5.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-24.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY FUNDED OTHER TYPES OF SUPPORT IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	5,764	5,322	5,028	4,734	5,155	-6.4	8.9
ENGINEERING	1,563	1,447	1,388	1,500	1,885	-1.4	25.7
AEROSPACE	136	170	239	241	277	21.0	14.9
AGRICULTURAL	10	4	5	9	8	-3.5	-11.1
BIOMEDICAL	18	24	21	6	5	-30.7	-16.7
CHEMICAL	125	39	39	33	22	-35.8	-33.3
CIVIL	188	123	135	136	154	-10.2	13.2
ELECTRICAL	407	496	417	480	664	5.7	38.3
ENGINEERING SCIENCE	195	214	159	155	221	-7.4	42.6
INDUSTRIAL	222	117	117	96	194	-24.4	102.1
MECHANICAL	35	51	41	36	34	.9	-5.6
METALLURGICAL/MATERIALS	11	12	2	3	8	-35.2	166.7
MINING	9	8	6	3	2	-30.7	-33.3
NUCLEAR	6	7	6	31	54	72.9	74.2
PETROLEUM	15	4	1	10	2	-12.6	-80.0
ENGINEERING, N.E.C.	186	178	200	261	240	12.0	-8.0
PHYSICAL SCIENCES	308	126	102	87	126	-34.4	44.8
ASTRONOMY	4	4	4	4	4	.0	.0
CHEMISTRY	241	47	21	14	31	-61.3	121.4
PHYSICS	63	66	72	69	90	3.1	30.4
PHYSICAL SCIENCES, N.E.C.	0	9	5	0	1	**	**
ENVIRONMENTAL SCIENCES	315	268	249	247	268	-7.8	8.5
ATMOSPHERIC SCIENCES	56	44	60	64	118	4.6	84.4
GEOSCIENCES	130	90	75	78	85	-15.7	9.0
OCEANOGRAPHY	103	90	91	83	49	-6.9	-41.0
ENVIRONMENTAL SCIENCES, N.E.C.	26	44	23	22	16	-5.4	-27.3
MATHEMATICAL/COMPUTER SCIENCES	398	454	534	537	452	10.5	-15.8
COMPUTER SCIENCE	129	182	222	220	198	19.5	-10.0
MATHEMATICS AND APPLIED MATHEMATICS	248	261	300	313	246	8.1	-21.4
STATISTICS	21	11	12	4	8	-42.5	100.0
LIFE SCIENCES	1,256	1,262	1,287	1,014	991	-6.9	-2.3
AGRICULTURAL SCIENCES	132	62	108	68	77	-19.8	13.2
BIOLOGICAL SCIENCES	543	465	446	487	444	-3.6	-8.8
ANATOMY	22	29	16	8	9	-28.6	12.5
BIOCHEMISTRY	39	34	29	91	105	32.6	15.4
BIOLOGY	126	57	59	80	77	-14.1	-3.8
BIOMETRY/EPIDEMIOLOGY	18	13	22	23	12	8.5	-47.8
BIOPHYSICS	6	5	4	1	1	-45.0	.0
BOTANY	31	24	16	26	13	-5.7	-50.0
CELL BIOLOGY	36	27	20	19	13	-19.2	-31.6
ECOLOGY	15	11	8	9	6	-15.7	-33.3
ENTOMOLOGY/PARASITOLOGY	20	15	19	11	8	-18.1	-27.3
GENETICS	17	5	15	11	13	-13.5	18.2
MICROBIOLOGY	39	70	61	64	52	18.0	-18.8
NUTRITION	10	22	24	18	22	21.6	22.2
PATHOLOGY	21	34	26	23	29	3.1	26.1
PHARMACOLOGY	33	39	28	41	38	7.5	-7.3
PHYSIOLOGY	73	51	35	17	21	-38.5	23.5
ZOOLOGY	30	19	30	10	16	-30.7	60.0
BIOSCIENCES, N.E.C.	7	10	34	35	9	71.0	-74.3
HEALTH SCIENCES	581	735	733	459	470	-7.6	2.4
ANESTHESIOLOGY	0	0	0	0	0	**	**
CANCER/ONCOLOGY	5	4	1	0	0	-100.0	**
CARDIOLOGY	0	0	1	1	0	**	-100.0
DENTISTRY	33	44	32	17	11	-19.8	-35.3
ENDOCRINOLOGY	0	2	1	0	2	**	**
GASTROENTEROLOGY	0	0	0	0	0	**	**
HEMATOLOGY	0	0	1	1	1	**	.0
NEUROLOGY	1	13	4	3	3	44.2	.0
NURSING	157	247	301	215	204	11.0	-5.1
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	**	**
OPHTHALMOLOGY	0	0	0	0	0	**	**
OTORHINOLARYNGOLOGY	0	0	0	0	0	**	**
PEDIATRICS	0	0	0	0	0	**	**
PHARMACEUTICAL SCIENCES	21	21	29	18	27	-5.0	50.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	185	129	127	87	108	-22.2	24.1
PSYCHIATRY	6	0	0	0	0	-100.0	**
PULMONARY DISEASE	0	0	0	0	0	**	**
RADIOLOGY	1	2	2	5	1	71.0	-80.0
SPEECH PATHOLOGY/AUDIOLOGY	48	69	52	58	47	6.5	-19.0
SURGERY	0	2	0	0	1	**	**
VETERINARY SCIENCES	7	4	11	2	15	-34.1	650.0
CLINICAL MEDICINE, N.E.C.	4	18	5	1	2	-37.0	100.0
HEALTH RELATED, N.E.C.	113	180	166	51	48	-23.3	-5.9
PSYCHOLOGY	383	560	458	293	289	-8.5	-1.4
SOCIAL SCIENCES	1,541	1,205	1,010	1,056	1,144	-11.8	8.3
AGRICULTURAL ECONOMICS	66	38	63	34	32	-19.8	-5.9
ANTHROPOLOGY	55	61	62	64	68	5.2	6.3
ECONOMICS (EXCEPT AGRICULTURAL)	57	92	78	46	31	-6.9	-32.6
GEOGRAPHY	22	14	17	12	12	-18.3	.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	3	0	1	**	**
LINGUISTICS	26	8	10	126	166	69.2	31.7
POLITICAL SCIENCE	414	430	423	438	435	1.9	-.7
SOCIOLOGY	76	65	78	34	33	-23.5	-2.9
SOCIOLOGY/ANTHROPOLOGY	4	12	1	2	3	-20.6	50.0
SOCIAL SCIENCES, N.E.C.	821	485	275	300	363	-28.5	21.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-29.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY FUNDED OTHER TYPES OF SUPPORT IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	94,857	97,691	100,110	101,831	105,950	2.4	4.0
ENGINEERING	14,826	15,558	16,976	19,326	21,819	9.2	12.9
AEROSPACE	245	283	313	289	398	5.7	37.7
AGRICULTURAL	161	126	180	188	190	5.3	1.1
BIOMEDICAL	333	305	355	410	437	7.2	6.6
CHEMICAL	1,000	1,041	1,191	1,400	1,444	11.9	3.1
CIVIL	3,910	3,924	4,728	5,218	5,432	10.1	4.1
ELECTRICAL	3,395	3,621	3,606	4,352	5,117	8.6	17.6
ENGINEERING SCIENCE	126	144	177	197	168	13.4	-14.7
INDUSTRIAL	2,082	2,231	2,051	2,103	2,498	.3	18.8
MECHANICAL	1,690	1,863	2,153	2,643	3,208	16.1	21.4
METALLURGICAL/MATERIALS	328	290	338	365	421	3.6	15.3
MINING	50	56	73	107	154	28.9	43.9
NUCLEAR	285	275	298	304	267	2.2	-12.2
PETROLEUM	90	129	147	202	271	30.9	34.2
ENGINEERING, N.E.C.	1,122	1,260	1,366	1,548	1,814	11.3	17.2
PHYSICAL SCIENCES	2,141	1,992	1,994	2,137	2,326	-.1	8.8
ASTRONOMY	89	42	45	60	38	.6	-36.7
CHEMISTRY	1,100	1,051	1,006	1,066	1,101	-1.0	3.3
PHYSICS	941	854	908	980	1,153	1.4	17.7
PHYSICAL SCIENCES, N.E.C.	41	45	35	31	34	-8.9	9.7
ENVIRONMENTAL SCIENCES	3,082	3,124	3,547	3,846	4,201	7.7	9.2
ATMOSPHERIC SCIENCES	97	117	137	138	102	12.5	-26.1
GEOSCIENCES	1,945	1,978	2,286	2,614	3,015	10.4	15.3
OCEANOGRAPHY	291	330	417	353	395	6.6	11.9
ENVIRONMENTAL SCIENCES, N.E.C.	749	699	707	741	689	-.4	-7.0
MATHEMATICAL/COMPUTER SCIENCES	5,313	5,852	6,365	7,975	8,774	14.5	10.0
COMPUTER SCIENCE	3,114	3,518	3,846	5,201	6,128	18.6	17.8
MATHEMATICS AND APPLIED MATHEMATICS	1,837	1,916	2,008	2,243	2,187	6.9	-2.5
STATISTICS	362	418	511	531	459	13.6	-13.6
LIFE SCIENCES	24,574	25,048	25,156	24,290	24,747	-.4	1.9
AGRICULTURAL SCIENCES	3,630	3,662	3,656	3,505	3,509	-1.2	.1
BIOLOGICAL SCIENCES	10,230	9,661	9,283	8,787	8,748	-4.9	-.4
ANATOMY	246	253	218	233	230	-1.8	-1.3
BIOCHEMISTRY	458	473	431	430	395	-2.1	-8.1
BIOLOGY	3,417	2,902	2,806	2,471	2,362	-10.2	-4.4
BIOMETRY/EPIDEMIOLOGY	472	510	393	372	372	-7.6	.0
BIOPHYSICS	80	85	119	92	87	4.8	-5.4
BOTANY	770	735	684	666	704	-4.7	5.7
CELL BIOLOGY	67	77	76	52	68	-8.1	30.8
ECOLOGY	188	241	251	253	207	10.4	-18.2
ENTOMOLOGY/PARASITOLOGY	332	300	287	261	243	-7.7	-6.9
GENETICS	207	171	178	204	224	-.5	9.8
MICROBIOLOGY	815	833	705	684	704	-5.7	2.9
NUTRITION	1,262	1,174	1,384	1,371	1,338	2.8	-2.4
PATHOLOGY	422	418	363	335	408	-7.4	21.8
PHARMACOLOGY	323	384	312	324	368	.1	13.6
PHYSIOLOGY	491	465	534	514	503	1.5	-2.1
ZOOLOGY	482	467	412	388	389	-7.0	.3
BIOSCIENCES, N.E.C.	198	173	128	137	146	-11.6	6.6
HEALTH SCIENCES	10,714	11,725	12,217	11,998	12,490	3.8	4.1
ANESTHESIOLOGY	15	13	15	19	27	8.2	42.1
CANCER/ONCOLOGY	7	4	47	5	1	-10.6	-80.0
CARDIOLOGY	0	18	24	24	21	**	-12.5
DENTISTRY	542	504	439	371	387	-11.9	4.3
ENDOCRINOLOGY	6	10	7	5	17	-5.9	140.0
GASTROENTEROLOGY	0	0	0	0	0	**	**
HEMATOLOGY	9	6	4	4	5	-23.7	25.0
NEUROLOGY	29	40	18	22	32	-8.8	45.5
NURSING	2,166	2,160	2,707	2,716	2,664	7.8	-1.9
OBSTETRICS/GYNECOLOGY	4	3	4	5	2	7.7	-60.0
OPHTHALMOLOGY	1	2	2	1	2	.0	100.0
OTORHINOLARYNGOLOGY	2	5	0	0	1	-100.0	**
PEDIATRICS	51	53	52	76	75	14.2	-1.3
PHARMACEUTICAL SCIENCES	387	419	369	413	399	2.2	-3.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,063	2,181	2,202	2,332	2,411	4.2	3.4
PSYCHIATRY	44	16	18	22	26	-20.6	18.2
PULMONARY DISEASE	0	2	0	0	0	**	**
RADIOLOGY	86	96	95	58	65	-12.3	12.1
SPEECH PATHOLOGY/AUDIOLOGY	3,083	3,504	3,470	3,429	3,466	3.6	1.1
SURGERY	25	36	7	14	20	-17.6	42.9
VETERINARY SCIENCES	133	92	78	95	77	-10.6	-18.9
CLINICAL MEDICINE, N.E.C.	94	138	84	107	130	4.4	21.5
HEALTH RELATED, N.E.C.	1,967	2,423	2,575	2,280	2,662	5.0	16.8
PSYCHOLOGY	14,594	15,173	15,103	14,848	15,825	.6	6.6
SOCIAL SCIENCES	30,327	30,944	30,969	29,409	28,258	-1.0	-3.9
AGRICULTURAL ECONOMICS	665	712	705	759	826	4.5	8.8
ANTHROPOLOGY	2,453	2,562	2,354	2,160	2,093	-4.2	-3.1
ECONOMICS (EXCEPT AGRICULTURAL)	3,520	4,100	4,259	4,317	3,956	7.0	-8.4
GEOGRAPHY	866	942	900	842	913	-.9	8.4
HISTORY AND PHILOSOPHY OF SCIENCE	88	83	73	68	84	-8.2	23.5
LINGUISTICS	824	1,026	990	890	956	2.6	7.4
POLITICAL SCIENCE	8,145	7,525	8,315	8,008	7,667	-.6	-4.3
SOCIOLOGY	2,254	2,327	2,046	1,742	1,781	-8.2	2.2
SOCIOLOGY/ANTHROPOLOGY	231	256	198	250	281	2.7	12.4
SOCIAL SCIENCES, N.E.C.	11,281	11,411	11,129	10,373	9,701	-2.8	-6.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-26. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH U.S. CITIZENSHIP IN ALL INSTITUTIONS BY FIELD: 1977 AND 1979-83 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1983	1977-82	1982-83	1977-83
TOTAL, ALL FIELDS	197,716	195,492	198,429	198,018	197,374	201,003	*	1.8	.3
ENGINEERING	23,922	23,733	25,109	26,443	28,816	32,181	3.8	11.7	5.1
AEROSPACE	711	631	75[illegible]	882	945	1,088	5.9	15.1	7.3
AGRICULTURAL	335	371	338	374	398	425	3.5	6.8	4.0
BIOMEDICAL	599	715	670	709	732	836	4.1	14.2	5.7
CHEMICAL	2,273	2,354	2,500	2,787	3,267	3,630	7.5	11.1	8.1
CIVIL	5,053	4,868	4,968	5,468	5,718	5,854	2.5	2.4	2.5
ELECTRICAL	5,435	5,174	5,666	5,665	6,421	7,354	3.4	14.5	5.2
ENGINEERING SCIENCE	783	754	785	848	837	867	1.3	3.6	1.7
INDUSTRIAL	2,100	2,329	2,316	2,047	2,205	2,634	1.0	19.5	3.8
MECHANICAL	2,991	2,999	3,211	3,363	3,767	4,324	4.7	14.8	6.3
METALLURGICAL/MATERIALS	1,186	1,110	1,147	1,342	1,297	1,528	1.8	17.8	4.3
MINING	212	185	186	234	251	273	3.4	8.8	4.3
NUCLEAR	768	631	600	605	569	591	-5.8	3.9	-4.3
PETROLEUM	100	105	160	198	216	330	16.7	52.8	22.0
ENGINEERING, N.E.C.	1,376	1,507	1,802	1,921	2,193	2,447	9.8	11.6	10.1
PHYSICAL SCIENCES	17,809	17,188	17,174	17,037	17,555	17,978	-.3	2.4	.2
ASTRONOMY	532	533	509	472	486	480	-1.7	-1.6	-1.7
CHEMISTRY	10,544	10,502	10,597	10,502	11,071	11,511	1.0	4.0	1.5
PHYSICS	6,626	6,080	5,988	5,987	5,915	5,907	-2.2	-.1	-1.9
PHYSICAL SCIENCES, N.E.C.	107	73	80	76	81	80	-5.4	-1.2	-4.7
ENVIRONMENTAL SCIENCES	9,417	9,402	9,570	9,534	9,789	10,374	.8	6.0	1.6
ATMOSPHERIC SCIENCES	679	593	614	566	592	603	-2.7	1.9	-2.0
GEOSCIENCES	5,786	6,014	6,194	6,144	6,608	7,280	2.7	10.2	3.9
OCEANOGRAPHY	1,390	1,326	1,360	1,376	1,253	1,251	-2.1	-.2	-1.7
ENVIRONMENTAL SCIENCES, N.E.C.	1,562	1,469	1,402	1,448	1,336	1,240	-3.1	-7.2	-3.8
MATHEMATICAL/COMPUTER SCIENCES	11,405	10,854	11,169	11,400	12,916	13,427	2.5	4.0	2.8
COMPUTER SCIENCE	3,495	4,082	4,521	4,887	5,981	6,697	11.3	12.0	11.4
MATHEMATICS AND APPLIED MATHEMATICS	6,958	5,948	5,740	5,668	6,100	5,902	-2.6	-3.2	-2.7
STATISTICS	952	824	888	845	835	828	-2.6	-.8	-2.3
LIFE SCIENCES	61,705	62,529	63,543	62,860	60,522	59,775	-.4	-1.2	-.5
AGRICULTURAL SCIENCES	7,679	7,653	7,754	7,701	7,508	7,368	-.4	-1.9	-.7
BIOLOGICAL SCIENCES	34,755	33,778	33,340	32,730	31,950	31,445	-1.7	-1.0	-1.6
ANATOMY	996	959	907	877	849	861	-3.1	1.4	-2.4
BIOCHEMISTRY	3,208	3,255	3,240	3,174	3,192	3,259	-.1	[illegible].1	.3
BIOLOGY	10,138	9,443	8,898	8,596	8,193	8,221	-4.2	.3	-3.4
BIOMETRY/EPIDEMIOLOGY	802	837	901	839	769	720	-.8	-6.4	-1.8
BIOPHYSICS	469	426	420	396	353	363	-5.5	2.8	-4.2
BOTANY	2,963	2,745	2,655	2,517	2,574	2,431	-2.8	-5.6	-3.2
CELL BIOLOGY	714	794	865	907	1,007	1,009	7.1	.2	5.9
ECOLOGY	902	784	890	866	830	766	-1.7	-7.7	-2.7
ENTOMOLOGY/PARASITOLOGY	1,155	1,238	1,298	1,189	1,113	1,065	-.7	-4.3	-1.3
GENETICS	837	781	787	781	810	819	-.7	1.1	-.4
MICROBIOLOGY	3,420	3,116	3,202	3,090	3,082	3,157	-2.1	2.4	-1.3
NUTRITION	2,148	2,243	2,243	2,354	2,279	2,194	1.2	-3.7	.4
PATHOLOGY	829	882	870	869	847	865	.4	2.1	.7
PHARMACOLOGY	1,514	1,658	1,700	1,715	1,697	1,712	2.3	.9	2.1
PHYSIOLOGY	1,814	1,714	1,682	1,744	1,617	1,577	-2.3	-2.5	-2.3
ZOOLOGY	2,503	2,297	2,154	2,118	2,005	1,935	-4.3	-3.5	-4.2
BIOSCIENCES, N.E.C.	343	606	628	698	733	691	16.4	-5.7	12.4
HEALTH SCIENCES	19,271	21,098	22,449	22,429	21,064	20,762	1.8	-1.4	1.2
ANESTHESIOLOGY	3	17	12	15	19	27	44.7	42.1	44.2
CANCER/ONCOLOGY	59	48	44	43	65	72	2.0	10.8	3.4
CARDIOLOGY	3	3	30	27	28	24	56.3	-14.3	41.4
DENTISTRY	669	713	665	588	598	586	-2.2	1.3	-1.6
ENDOCRINOLOGY	28	42	47	43	44	55	9.5	25.0	11.9
GASTROENTEROLOGY	8	0	0	2	1	0	-34.0	-100.0	-100.0
HEMATOLOGY	5	13	8	9	6	9	3.7	50.0	10.3
NEUROLOGY	211	234	219	174	188	231	-2.3	22.9	1.5
NURSING	5,437	6,150	6,302	6,912	6,410	6,045	3.3	-5.7	1.8
OBSTETRICS/GYNECOLOGY	20	25	4	8	9	13	-14.8	44.4	-6.9
OPHTHALMOLOGY	9	4	13	16	6	6	-7.8	.0	-6.5
OTORHINOLARYNGOLOGY	41	13	14	11	11	5	-23.1	-54.5	-29.6
PEDIATRICS	107	116	119	126	125	114	3.2	-8.8	1.1
PHARMACEUTICAL SCIENCES	1,162	1,144	1,192	1,149	1,116	1,125	-.8	.8	-.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,815	3,816	3,954	3,893	3,361	3,241	3.6	-3.6	2.4
PSYCHIATRY	124	116	59	57	62	73	-12.9	17.7	-8.5
PULMONARY DISEASE	3	1	15	9	9	2	24.6	-77.8	-6.5
RADIOLOGY	236	181	196	200	171	29	-6.2	-24.6	-9.6
SPEECH PATHOLOGY/AUDIOLOGY	5,250	4,938	5,375	5,170	5,231	5,143	-.1	-1.7	-.3
SURGERY	90	54	71	73	73	59	-4.1	-19.2	-6.8
VETERINARY SCIENCES	295	306	281	254	285	252	-.7	-11.6	-2.6
CLINICAL MEDICINE, N.E.C.	228	241	318	259	304	296	5.9	-2.6	4.4
HEALTH RELATED, N.E.C.	2,468	2,923	3,511	3,391	2,942	3,235	3.6	10.0	4.6
PSYCHOLOGY	24,968	24,717	25,482	25,721	24,739	25,673	-.2	3.8	.5
SOCIAL SCIENCES	48,490	47,069	46,383	45,023	43,037	41,595	-2.4	-3.4	-2.5
AGRICULTURAL ECONOMICS	1,334	1,293	1,309	1,268	1,276	1,282	-.9	.5	-.7
ANTHROPOLOGY	4,801	4,257	4,220	3,895	3,719	3,593	-5.0	-3.4	-4.7
ECONOMICS (EXCEPT AGRICULTURAL)	5,556	5,231	5,774	5,713	5,925	5,716	1.3	-3.5	.5
GEOGRAPHY	1,980	1,717	1,864	1,[illegible]63	1,748	1,816	-2.5	3.9	-1.4
HISTORY AND PHILOSOPHY OF SCIENCE	232	204	216	187	188	189	-4.1	.5	-3.4
LINGUISTICS	1,473	1,653	1,517	1,512	1,447	1,525	-.4	5.4	.6
POLITICAL SCIENCE	11,882	11,760	11,083	11,662	11,194	10,739	-1.2	-4.1	-1.7
SOCIOLOGY	5,466	4,782	4,713	4,357	3,890	3,715	-6.6	-4.5	-6.2
SOCIOLOGY/ANTHROPOLOGY	735	567	542	474	523	542	-6.6	3.6	-5.0
SOCIAL SCIENCES, N.E.C.	15,031	15,605	15,145	14,092	13,127	12,478	-2.7	-4.9	-3.1

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-27. -- FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1977 AND 1979-83 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1983	1977-82	1982-83	1977-83
TOTAL, ALL FIELDS	38,448	46,887	50,730	54,979	57,929	62,797	8.5	8.4	8.5
ENGINEERING	13,643	16,660	17,999	19,814	21,523	23,049	9.4	7.6	9.1
AEROSPACE	476	521	568	601	577	752	3.9	30.3	7.9
AGRICULTURAL	285	274	293	298	341	341	3.7	.0	3.0
BIOMEDICAL	116	131	135	158	199	195	11.4	-2.0	9.0
CHEMICAL	1,600	1,864	1,990	2,202	2,341	2,239	7.9	-4.4	5.8
CIVIL	2,378	3,145	3,375	3,740	4,050	4,388	11.1	8.3	10.6
ELECTRICAL	3,093	3,569	4,297	4,745	5,112	5,838	10.6	14.2	11.2
ENGINEERING SCIENCE	337	307	363	372	440	497	5.5	13.0	6.7
INDUSTRIAL	1,243	1,414	1,496	1,595	1,626	1,496	5.5	-8.0	3.1
MECHANICAL	1,892	2,429	2,630	3,059	3,500	4,027	13.1	15.1	13.4
METALLURGICAL/MATERIALS	765	1,025	1,107	1,112	1,181	1,176	9.1	-.4	7.4
MINING	153	113	139	155	122	155	-4.4	27.0	.2
NUCLEAR	391	444	443	427	473	461	3.9	-2.5	2.8
PETROLEUM	201	232	213	195	260	290	5.3	11.5	6.3
ENGINEERING, N.E.C.	693	836	990	1,115	1,201	1,194	11.6	-.6	9.5
PHYSICAL SCIENCES	4,696	5,347	5,744	6,271	6,485	7,219	6.7	11.3	7.4
ASTRONOMY	71	81	84	93	102	105	7.5	2.9	6.7
CHEMISTRY	2,587	2,859	2,983	3,217	3,216	3,430	4.4	9.8	5.3
PHYSICS	2,023	2,393	2,665	2,950	3,157	3,572	9.3	13.1	9.9
PHYSICAL SCIENCES, N.E.C.	15	14	12	11	10	12	-7.8	20.0	-3.7
ENVIRONMENTAL SCIENCES	1,139	1,322	1,399	1,504	1,647	1,677	7.7	1.8	6.7
ATMOSPHERIC SCIENCES	128	149	144	179	187	182	7.9	-2.7	6.0
GEOSCIENCES	749	755	816	885	913	923	5.2	1.1	4.5
OCEANOGRAPHY	150	185	208	246	340	361	17.8	6.2	15.8
ENVIRONMENTAL SCIENCES, N.E.C.	152	232	231	194	207	211	6.4	1.9	5.6
MATHEMATICAL/COMPUTER SCIENCES	3,564	4,667	5,320	6,199	7,078	8,233	14.7	16.3	15.0
COMPUTER SCIENCE	1,109	1,771	2,066	2,558	3,190	3,981	23.5	24.8	23.7
MATHEMATICS AND APPLIED MATHEMATICS	1,920	2,298	2,627	2,941	3,142	3,515	10.4	11.9	10.6
STATISTICS	535	598	627	700	746	737	6.9	-1.2	5.5
LIFE SCIENCES	7,123	8,621	866	9,381	9,732	10,430	6.4	7.2	6.6
AGRICULTURAL SCIENCES	1,888	2,141	2,226	2,375	2,383	2,468	4.8	3.6	4.6
BIOLOGICAL SCIENCES	3,848	4,440	4,588	4,852	5,039	5,541	5.5	10.0	6.3
ANATOMY	66	82	83	86	88	76	5.9	-13.6	2.4
BIOCHEMISTRY	433	443	509	594	650	782	8.7	18.8	10.4
BIOLOGY	676	849	868	883	851	987	4.7	16.0	6.5
BIOMETRY/EPIDEMIOLOGY	92	130	144	160	150	157	10.3	4.7	9.3
BIOPHYSICS	84	72	56	64	70	80	-3.6	14.3	-.8
BOTANY	485	525	535	539	595	612	4.2	2.9	4.0
CELL BIOLOGY	63	65	67	82	103	120	10.3	16.5	11.3
ECOLOGY	32	53	67	73	80	78	20.1	-2.5	16.0
ENTOMOLOGY/PARASITOLOGY	234	225	227	263	227	240	-.6	5.7	.4
GENETICS	106	94	98	92	114	145	1.5	27.2	5.4
MICROBIOLOGY	313	391	418	418	435	511	6.8	17.5	8.5
NUTRITION	707	777	781	834	841	821	3.5	-2.4	2.5
PATHOLOGY	113	149	163	184	174	208	9.0	19.5	10.7
PHARMACOLOGY	153	195	186	199	243	246	9.7	1.2	8.2
PHYSIOLOGY	111	178	171	180	188	215	11.1	14.4	11.6
ZOOLOGY	128	137	136	130	131	150	.5	14.5	2.7
BIOSCIENCES, N.E.C.	52	75	79	74	91	113	11.8	24.2	13.8
HEALTH SCIENCES	1,387	2,040	2,052	2,154	2,310	2,421	10.7	4.8	9.7
ANESTHESIOLOGY	0	1	1	1	0	0	**	**	**
CANCER/ONCOLOGY	16	13	10	10	4	1	-24.2	-75.0	-37.0
CARDIOLOGY	0	0	5	1	0	0	**	**	**
DENTISTRY	138	211	223	173	129	122	-1.3	-5.4	-2.0
ENDOCRINOLOGY	3	1	1	3	6	9	14.9	50.0	20.1
GASTROENTEROLOGY	0	0	0	1	0	0	**	**	**
HEMATOLOGY	2	1	0	0	0	0	-100.0	**	-100.0
NEUROLOGY	14	13	15	15	14	27	.0	92.9	11.6
NURSING	147	169	181	225	202	159	6.6	-21.3	1.3
OBSTETRICS/GYNECOLOGY	5	1	1	2	6	2	3.7	-66.7	-14.2
OPHTHALMOLOGY	0	1	2	3	2	1	**	-50.0	**
OTORHINOLARYNGOLOGY	3	0	0	0	0	0	-100.0	**	-100.0
PEDIATRICS	5	3	8	19	19	24	30.6	26.3	29.9
PHARMACEUTICAL SCIENCES	427	479	463	539	587	618	6.6	5.3	6.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	249	508	584	580	695	715	22.8	2.9	19.2
PSYCHIATRY	3	4	2	0	6	7	14.9	16.7	15.2
PULMONARY DISEASE	0	0	0	0	1	0	**	-100.0	**
RADIOLOGY	34	39	37	37	37	40	1.7	8.1	2.7
SPEECH PATHOLOGY/AUDIOLOGY	113	230	209	224	213	261	13.5	22.5	15.0
SURGERY	14	12	14	10	14	14	.0	.0	.0
VETERINARY SCIENCES	100	129	113	118	93	111	-1.4	19.4	1.8
CLINICAL MEDICINE, N.E.C.	27	22	25	29	55	71	15.3	29.1	17.5
HEALTH RELATED, N.E.C.	87	179	158	164	227	239	21.1	5.3	18.3
PSYCHOLOGY	742	1,148	1,210	1,004	1,079	1,091	7.8	1.1	6.6
SOCIAL SCIENCES	7,541	9,122	10,192	10,806	10,479	11,098	6.8	5.9	6.7
AGRICULTURAL ECONOMICS	640	667	754	770	702	765	1.9	9.0	3.0
ANTHROPOLOGY	291	334	396	428	396	405	5.8	4.9	5.7
ECONOMICS (EXCEPT AGRICULTURAL)	2,821	3,128	3,499	3,674	3,554	3,565	4.7	.3	4.0
GEOGRAPHY	248	343	383	370	391	386	9.5	-1.3	7.7
HISTORY AND PHILOSOPHY OF SCIENCE	25	30	25	30	35	40	7.0	14.3	8.1
LINGUISTICS	465	617	743	753	710	850	8.8	19.7	10.6
POLITICAL SCIENCE	1,581	2,109	2,356	2,509	2,519	2,742	9.6	8.9	9.5
SOCIOLOGY	697	828	924	1,044	985	1,100	7.2	11.7	7.9
SOCIOLOGY/ANTHROPOLOGY	79	111	103	101	134	129	11.1	-3.7	8.5
SOCIAL SCIENCES, N.E.C.	684	955	1,009	1,127	1,063	1,116	9.2	5.0	8.5

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-28. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	2,813	3,084	3,386	3,318	3,496	3,380	3,570	3.1	5.6	3.5
ENGINEERING	148	159	212	264	242	267	311	10.3	16.5	11.2
AEROSPACE	0	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0	0	0
CIVIL	0	0	0	0	0	0	0	0	0	0
ELECTRICAL	67	39	79	85	53	44	47	-6.8	6.8	-4.9
ENGINEERING SCIENCE	29	69	28	44	66	64	94	14.1	46.9	18.3
INDUSTRIAL	0	4	0	0	0	0	0	**	**	**
MECHANICAL	0	0	0	26	7	8	23	**	187.5	**
METALLURGICAL/MATERIALS	35	25	21	22	30	30	47	-2.5	56.7	4.3
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	0	0	0
PETROLEUM	0	6	0	0	0	0	0	**	**	**
ENGINEERING, N.E.C.	0	0	0	0	0	0	0	0	0	0
	17	16	86	85	86	121	100	38.7	-17.4	28.8
PHYSICAL SCIENCES	245	288	244	248	284	264	319	2.7	10.8	3.8
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	179	216	195	195	217	226	250	4.0	10.6	4.9
PHYSICS	56	59	49	53	67	58	57	.6	-1.7	.3
PHYSICAL SCIENCES, N.E.C.	10	13	0	0	0	4	12	-14.2	200.0	2.6
ENVIRONMENTAL SCIENCES	21	28	23	30	23	31	32	6.7	3.2	6.2
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	9	9	7	9	2	13	16	6.3	23.1	8.6
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	12	19	16	21	21	18	16	7.0	-11.1	4.2
MATHEMATICAL/COMPUTER SCIENCES	361	341	273	293	318	438	506	3.3	15.5	4.9
COMPUTER SCIENCE	100	129	135	139	150	232	271	15.1	16.8	15.3
MATHEMATICS AND APPLIED MATHEMATICS	261	212	138	154	168	206	235	-3.9	14.1	-1.5
STATISTICS	0	0	0	0	0	0	0	0	0	0
LIFE SCIENCES	790	824	897	841	835	858	866	1.4	.9	1.3
AGRICULTURAL SCIENCES	53	78	105	72	83	87	82	8.6	-5.7	6.4
BIOLOGICAL SCIENCES	650	637	665	640	610	605	607	-1.2	.3	-1.0
ANATOMY	8	10	6	7	8	10	8	3.8	-20.0	.0
BIOCHEMISTRY	18	25	22	21	21	22	18	3.4	-18.2	.0
BIOLOGY	278	381	393	362	323	334	323	-2.0	-3.3	-2.2
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	52	40	38	39	50	45	44	-2.4	-2.2	-2.4
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	7	11	16	13	16	25	27	23.6	8.0	21.3
MICROBIOLOGY	34	[illegible]	39	21	27	24	26	-5.6	8.3	-3.8
NUTRITION	25	[illegible]	23	39	39	36	34	6.3	-5.6	4.5
PATHOLOGY	0	0	0	0	0	0	0	0	0	0
PHARMACOLOGY	44	33	46	42	34	35	36	-3.7	2.9	-2.8
PHYSIOLOGY	19	21	14	14	17	14	19	-5.0	35.7	.0
ZOOLOGY	65	57	68	66	55	41	40	-7.4	-2.4	-6.7
BIOSCIENCES, N.E.C.	0	0	0	16	20	19	32	**	68.4	**
HEALTH SCIENCES	87	109	127	129	142	166	177	11.4	6.6	10.7
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	2	0	0	0	0	0	**	**	**
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	16	28	44	46	45	63	68	25.7	7.9	23.0
OBSTETRICS/GYNECOLOGY	0	0	4	0	0	0	0	**	**	**
OPHTHALMOLOGY	1	0	0	0	0	0	0	-100.0	**	-100.0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	10	15	15	15	12	13	**	8.3	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	9	16	14	14	11	8	11	-1.9	37.5	2.9
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	33	32	33	39	48	58	59	9.9	1.7	8.7
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	28	21	15	15	23	25	26	-1.9	4.0	-1.1
CLINICAL MEDICINE, N.E.C.	0	0	2	0	0	0	0	**	**	**
HEALTH RELATED, N.E.C.	0	0	0	0	0	0	0	0	0	0
PSYCHOLOGY	303	265	274	291	268	227	384	-4.7	69.2	3.4
SOCIAL SCIENCES	945	1,179	1,463	1,351	1,526	1,271	1,152	5.1	-9.4	2.9
AGRICULTURAL ECONOMICS	4	8	5	35	22	39	53	46.2	35.9	44.6
ANTHROPOLOGY	0	0	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	128	123	148	175	250	284	106	14.2	-62.7	-2.7
GEOGRAPHY	0	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	100	113	115	124	104	24	43	-21.2	79.2	-11.4
POLITICAL SCIENCE	233	388	410	450	452	286	297	3.5	3.8	3.5
SOCIOLOGY	94	98	106	124	283	217	214	15.0	-1.4	12.5
SOCIOLOGY/ANTHROPOLOGY	88	98	93	102	95	109	113	3.0	7.6	3.6
SOCIAL SCIENCES, N.E.C.	298	351	586	341	320	316	326	1.0	3.2	1.3

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-29.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY TYPE AND SOURCE OF MAJOR SUPPORT: 1979–83

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979–82	1982–83
TOTAL, ALL TYPES:							
TOTAL, ALL SOURCES	2,214	2,322	2,505	2,326	2,329	1.7	0.1
FEDERAL, TOTAL	553	622	597	591	560	2.2	-5.2
DEPT OF DEFENSE	0	18	22	20	33	**	65.0
DEPT OF HHS, TOTAL	307	318	218	231	220	-9.0	-4.8
NIH	235	227	175	190	187	-6.8	-1.6
OTHER HHS	72	91	43	41	33	-17.1	-19.5
NSF	94	85	133	70	50	-9.4	-28.6
ALL OTHER FEDERAL	152	201	254	270	257	21.1	-4.8
INSTITUTIONAL SUPPORT	495	474	625	643	673	9.1	4.7
OTHER OUTSIDE SUPPORT, TOTAL	131	113	93	141	176	2.5	24.8
ALL OTHER U.S.	112	70	67	105	136	-2.1	29.5
FOREIGN	19	43	26	36	40	23.7	11.1
SELF-SUPPORT	1,035	913	1,190	951	920	-2.8	-3.3
FELLOWSHIPS AND TRAINEESHIPS:							
TOTAL, ALL SOURCES	454	430	468	492	492	2.7	.0
FEDERAL, TOTAL	305	277	306	288	254	-1.9	-11.8
DEPT OF DEFENSE	0	2	1	1	5	**	400.0
DEPT OF HHS, TOTAL	213	179	140	135	125	-14.1	-7.4
NIH	147	113	109	108	98	-9.8	-9.3
OTHER HHS	66	66	31	27	27	-25.8	.0
NSF	70	52	69	49	29	-11.2	-40.8
ALL OTHER FEDERAL	22	44	96	103	95	67.3	-7.8
INSTITUTIONAL SUPPORT	101	121	125	128	133	8.2	3.9
OTHER OUTSIDE SUPPORT, TOTAL	48	32	37	76	105	16.6	38.2
ALL OTHER U.S.	39	21	22	61	73	16.1	19.7
FOREIGN	9	11	14	15	32	18.6	113.3
SELF-SUPPORT	0	0	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:							
TOTAL, ALL SOURCES	194	340	353	324	368	18.6	13.6
FEDERAL, TOTAL	130	258	214	229	249	20.8	8.7
DEPT OF DEFENSE	0	11	16	14	27	**	92.9
DEPT OF HHS, TOTAL	48	100	74	85	85	21.0	.0
NIH	42	99	66	77	80	22.4	3.9
OTHER HHS	6	1	8	8	5	10.1	-37.5
NSF	12	27	28	18	18	14.5	.0
ALL OTHER FEDERAL	70	120	96	112	119	17.0	6.3
INSTITUTIONAL SUPPORT	53	58	113	79	103	14.2	30.4
OTHER OUTSIDE SUPPORT, TOTAL	11	24	26	16	16	13.3	.0
ALL OTHER U.S.	11	16	19	14	15	8.4	7.1
FOREIGN	0	8	7	2	1	**	-50.0
SELF-SUPPORT	0	0	0	0	0	0	0
TEACHING ASSISTANTSHIPS:							
TOTAL, ALL SOURCES	277	379	303	385	357	11.6	-7.3
FEDERAL, TOTAL	15	24	6	16	3	2.2	-81.3
DEPT OF DEFENSE	0	0	0	0	0	0	0
DEPT OF HHS, TOTAL	6	6	0	8	3	10.1	-62.5
NIH	6	1	0	2	3	-30.7	50.0
OTHER HHS	0	5	0	6	0	**	-100.0
NSF	9	6	0	0	0	-100.0	**
ALL OTHER FEDERAL	0	12	6	8	0	**	-100.0
INSTITUTIONAL SUPPORT	254	352	291	357	350	12.0	-2.0
OTHER OUTSIDE SUPPORT, TOTAL	8	3	6	12	4	14.5	-66.7
ALL OTHER U.S.	8	3	6	12	4	14.5	-66.7
FOREIGN	0	0	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0	0	0
OTHER TYPES OF SUPPORT:							
TOTAL, ALL SOURCES	1,289	1,173	1,381	1,125	1,112	-4.4	-1.2
FEDERAL, TOTAL	103	63	71	58	54	-17.4	-6.9
DEPT OF DEFENSE	0	5	5	5	1	**	-80.0
DEPT OF HHS, TOTAL	40	33	4	3	7	-57.8	133.3
NIH	40	14	0	3	6	-57.8	100.0
OTHER HHS	0	19	4	0	1	**	**
NSF	3	0	6	3	3	.0	.0
ALL OTHER FEDERAL	60	25	56	47	43	-7.8	-8.5
INSTITUTIONAL SUPPORT	87	141	96	79	87	-3.2	10.1
OTHER OUTSIDE SUPPORT, TOTAL	64	54	24	37	51	-16.7	37.8
ALL OTHER U.S.	54	30	19	18	44	-30.7	144.4
FOREIGN	10	24	5	19	7	23.9	-63.2
SELF-SUPPORT	1,035	913	1,190	951	920	-2.8	-1.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-30. -- SCIENCE/ENGINEERING POSTDOCTORATES IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	18,137	18,443	19,679	19,405	20,829	2.3	7.3
ENGINEERING	1,067	980	1,041	933	1,113	-2.7	13.2
AEROSPACE	32	20	14	25	32	-7.9	28.0
AGRICULTURAL	25	9	9	6	4	-37.9	-33.3
BIOMEDICAL	32	28	34	31	28	-1.1	-9.7
CHEMICAL	192	183	171	175	198	-3.0	13.1
CIVIL	128	124	107	108	131	-5.5	21.3
ELECTRICAL	142	123	191	178	184	7.8	3.4
ENGINEERING SCIENCE	74	79	87	76	71	.9	-6.6
INDUSTRIAL	8	16	13	9	14	4.0	55.6
MECHANICAL	143	137	130	130	182	-3.1	40.0
METALLURGICAL/MATERIALS	209	172	194	138	204	-7.0	21.4
MINING	5	3	16	10	19	26.0	90.0
NUCLEAR	20	22	26	18	15	-3.5	-16.7
PETROLEUM	4	6	2	4	1	12.6	-75.0
ENGINEERING, N.E.C.	51	58	47	45	30	-4.1	-33.3
PHYSICAL SCIENCES	4,056	4,279	4,477	4,298	4,458	2.0	3.7
ASTRONOMY	132	141	132	148	111	3.9	-25.0
CHEMISTRY	2,621	2,720	2,879	2,818	2,985	2.4	6.1
PHYSICS	1,301	1,403	1,451	1,330	1,354	.7	1.8
PHYSICAL SCIENCES, N.E.C.	2	15	15	2	4	.0	100.0
ENVIRONMENTAL SCIENCES	315	312	346	340	419	2.6	23.2
ATMOSPHERIC SCIENCES	31	43	46	33	41	2.1	24.2
GEOSCIENCES	219	195	218	218	240	-.2	10.1
OCEANOGRAPHY	54	58	68	79	121	13.5	53.2
ENVIRONMENTAL SCIENCES, N.E.C.	11	16	14	10	17	-3.1	70.0
MATHEMATICAL/COMPUTER SCIENCES	290	205	148	241	252	6.4	4.6
COMPUTER SCIENCE	38	43	35	47	82	7.3	74.5
MATHEMATICS AND APPLIED MATHEMATICS	139	141	102	180	137	9.0	-23.9
STATISTICS	23	21	11	14	33	-15.3	135.7
LIFE SCIENCES	11,642	11,752	12,863	12,735	13,789	3.0	8.3
AGRICULTURAL SCIENCES	215	239	284	279	298	9.1	6.8
BIOLOGICAL SCIENCES	6,891	7,115	7,713	7,764	8,417	4.1	8.4
ANATOMY	244	237	248	261	297	2.3	13.8
BIOCHEMISTRY	1,562	1,599	1,724	1,684	1,786	2.5	6.1
BIOLOGY	981	997	877	950	1,009	-1.1	6.2
BIOMETRY/EPIDEMIOLOGY	68	72	64	53	54	-8.0	1.9
BIOPHYSICS	101	151	155	129	184	8.5	42.6
BOTANY	163	220	241	298	359	22.3	23.8
CELL BIOLOGY	352	410	532	516	620	13.6	20.2
ECOLOGY	18	22	44	28	33	15.9	39.3
ENTOMOLOGY/PARASITOLOGY	104	119	133	119	112	4.6	-5.9
GENETICS	239	258	298	314	344	9.5	9.6
MICROBIOLOGY	861	873	967	1,014	1,017	5.6	.3
NUTRITION	170	129	171	138	151	-6.7	9.4
PATHOLOGY	429	477	468	540	584	8.0	8.1
PHARMACOLOGY	637	624	755	777	801	6.8	3.1
PHYSIOLOGY	681	668	758	673	773	-.4	14.9
ZOOLOGY	215	193	207	203	203	-1.9	.0
BIOSCIENCES, N.E.C.	66	66	72	67	74	.5	10.4
HEALTH SCIENCES	4,524	4,398	4,866	4,692	5,074	1.1	8.1
ANESTHESIOLOGY	62	54	66	58	59	-2.2	1.7
CANCER/ONCOLOGY	114	135	129	100	157	-4.3	57.0
CARDIOLOGY	298	334	333	373	336	7.8	-9.9
DENTISTRY	102	79	139	246	197	34.1	-19.9
ENDOCRINOLOGY	108	136	164	139	173	8.8	24.5
GASTROENTEROLOGY	103	123	113	112	148	2.8	32.1
HEMATOLOGY	151	148	153	137	154	-3.2	12.4
NEUROLOGY	265	283	287	264	301	-1.4	18.5
NURSING	7	9	8	0	6	-100.0	**
OBSTETRICS/GYNECOLOGY	143	122	113	91	116	-10.9	14.9
OPHTHALMOLOGY	138	122	144	139	137	.2	-1.4
OTORHINOLARYNGOLOGY	34	44	38	17	23	-20.6	35.3
PEDIATRICS	511	483	587	530	545	1.2	2.8
PHARMACEUTICAL SCIENCES	235	233	243	238	241	.4	1.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	112	161	135	143	161	8.5	12.6
PSYCHIATRY	292	295	289	282	264	-1.2	-6.4
PULMONARY DISEASE	143	127	122	131	149	-2.9	13.7
RADIOLOGY	138	156	155	164	187	5.9	14.0
SPEECH PATHOLOGY/AUDIOLOGY	36	18	20	10	18	-34.8	80.0
SURGERY	281	307	305	323	390	4.8	20.7
VETERINARY SCIENCES	22	52	31	51	51	32.3	.0
CLINICAL MEDICINE, N.E.C.	1,145	925	1,179	1,052	1,160	-2.8	10.3
HEALTH RELATED, N.E.C.	96	102	113	92	101	-1.4	9.8
PSYCHOLOGY	454	475	471	520	437	4.6	-16.0
SOCIAL SCIENCES	403	440	333	288	361	-10.6	25.3
AGRICULTURAL ECONOMICS	6	8	6	10	28	18.6	180.0
ANTHROPOLOGY	44	42	31	35	61	-7.3	74.3
ECONOMICS (EXCEPT AGRICULTURAL)	99	146	30	13	20	-49.2	53.8
GEOGRAPHY	5	15	23	5	7	.0	40.0
HISTORY AND PHILOSOPHY OF SCIENCE	11	15	21	14	19	8.4	35.7
LINGUISTICS	30	54	47	47	51	16.1	8.5
POLITICAL SCIENCE	29	30	46	44	43	14.9	-2.3
SOCIOLOGY	115	99	90	89	102	-8.2	14.6
SOCIOLOGY/ANTHROPOLOGY	4	3	0	2	1	-20.6	-50.0
SOCIAL SCIENCES, N.E.C.	60	28	36	29	29	-21.5	.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-31. — MALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	14,790	14,891	15,580	15,022	16,017	.5	6.6
ENGINEERING	1,017	915	959	898	1,025	-4.1	14.1
AEROSPACE	32	20	12	25	32	-7.9	28.0
AGRICULTURAL	24	8	9	6	4	-37.0	-33.3
BIOMEDICAL	26	23	25	25	24	-1.3	-4.0
CHEMICAL	180	142	160	154	172	-5.1	11.7
CIVIL	123	114	99	101	125	-6.4	23.8
ELECTRICAL	139	126	181	161	172	5.0	6.8
ENGINEERING SCIENCE	70	74	84	70	68	.0	-2.9
INDUSTRIAL	7	16	10	8	12	4.6	50.0
MECHANICAL	141	134	170	125	175	-3.9	40.8
METALLURGICAL/MATERIALS	198	160	178	152	180	-8.4	18.4
MINING	5	3	11	10	19	26.0	90.0
NUCLEAR	18	21	22	16	14	-3.9	-12.5
PETROLEUM	6	6	2	3	0	-20.6	-100.0
ENGINEERING, N.E.C.	48	56	43	42	27	-4.4	-35.7
PHYSICAL SCIENCES	3,669	3,846	3,998	3,780	3,921	1.0	3.7
ASTRONOMY	122	128	122	133	93	2.9	-30.1
CHEMISTRY	2,315	2,486	2,509	2,417	2,559	1.4	5.9
PHYSICS	1,231	1,317	1,352	1,228	1,264	-.1	3.1
PHYSICAL SCIENCES, N.E.C.	1	15	15	2	3	26.0	50.0
ENVIRONMENTAL SCIENCES	285	277	312	289	357	.5	23.5
ATMOSPHERIC SCIENCES	30	41	42	30	37	.0	23.3
GEOSCIENCES	193	173	197	188	212	-.9	12.8
OCEANOGRAPHY	51	49	59	62	92	6.7	48.4
ENVIRONMENTAL SCIENCES, N.E.C.	11	14	14	9	16	-6.5	77.8
MATHEMATICAL/COMPUTER SCIENCES	178	183	129	216	226	6.7	4.6
COMPUTER SCIENCE	36	41	29	38	72	1.8	89.5
MATHEMATICS AND APPLIED MATHEMATICS	122	128	90	168	126	11.3	-25.0
STATISTICS	20	20	10	10	28	-20.6	180.0
LIFE SCIENCES	9,662	9,046	9,667	9,364	9,986	1.0	6.6
AGRICULTURAL SCIENCES	199	209	249	246	244	9.2	-.8
BIOLOGICAL SCIENCES	5,180	5,307	5,685	5,558	6,001	2.3	8.1
ANATOMY	178	170	175	187	210	1.7	12.3
BIOCHEMISTRY	1,209	1,211	1,308	1,218	1,281	.2	5.2
BIOLOGY	713	706	595	647	682	-3.2	5.4
BIOMETRY/EPIDEMIOLOGY	40	47	41	36	31	-3.5	-13.9
BIOPHYSICS	79	114	130	105	135	9.9	28.6
BOTANY	124	161	178	209	272	19.0	30.1
CELL BIOLOGY	257	295	378	355	436	11.4	22.8
ECOLOGY	17	19	33	24	37	12.2	54.2
ENTOMOLOGY/PARASITOLOGY	81	100	109	105	93	9.0	-11.4
GENETICS	165	170	188	192	219	5.2	14.1
MICROBIOLOGY	625	642	694	714	710	4.5	-.6
NUTRITION	121	98	121	99	105	-4.5	6.1
PATHOLOGY	326	343	367	359	398	3.3	10.9
PHARMACOLOGY	496	493	599	612	602	7.3	-1.6
PHYSIOLOGY	546	528	580	506	590	-2.5	16.6
ZOOLOGY	155	141	134	135	145	-4.6	7.4
BIOSCIENCES, N.E.C.	48	47	55	50	55	1.4	10.0
HEALTH SCIENCES	3,713	3,530	3,733	3,565	3,741	-1.3	4.9
ANESTHESIOLOGY	59	49	50	36	44	-15.2	22.2
CANCER/ONCOLOGY	100	114	94	73	106	-10.0	45.2
CARDIOLOGY	270	292	289	309	287	4.6	-7.1
DENTISTRY	82	62	117	203	156	35.3	-23.2
ENDOCRINOLOGY	90	107	133	95	122	1.8	28.4
GASTROENTEROLOGY	84	106	92	95	135	4.2	42.1
HEMATOLOGY	129	125	123	99	104	-8.4	5.1
NEUROLOGY	226	227	231	201	216	-3.8	7.5
NURSING	3	2	6	0	1	-100.0	**
OBSTETRICS/GYNECOLOGY	118	94	75	70	81	-16.0	15.7
OPHTHALMOLOGY	108	96	111	106	92	-.6	-13.2
OTORHINOLARYNGOLOGY	29	40	33	17	21	-16.3	23.5
PEDIATRICS	375	312	381	354	349	-1.9	-1.4
PHARMACEUTICAL SCIENCES	202	209	207	185	187	-2.9	1.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	89	101	88	94	112	1.8	19.1
PSYCHIATRY	197	199	178	172	163	-4.4	-5.2
PULMONARY DISEASE	132	114	113	113	113	-5.0	.0
RADIOLOGY	116	134	116	131	152	4.1	16.0
SPEECH PATHOLOGY/AUDIOLOGY	20	11	11	5	8	-37.0	60.0
SURGERY	248	282	284	294	343	5.8	16.7
VETERINARY SCIENCES	15	37	17	26	32	20.1	23.1
CLINICAL MEDICINE, N.E.C.	950	751	900	825	857	-4.6	3.9
HEALTH RELATED, N.E.C.	71	66	82	62	60	-4.4	-3.2
PSYCHOLOGY	298	302	290	302	258	.4	-14.6
SOCIAL SCIENCES	261	316	225	173	244	-12.8	41.0
AGRICULTURAL ECONOMICS	6	8	6	9	22	14.5	144.4
ANTHROPOLOGY	26	23	16	14	33	-18.6	135.7
ECONOMICS (EXCEPT AGRICULTURAL)	82	121	22	10	16	-50.4	60.0
GEOGRAPHY	2	12	16	4	7	26.0	75.0
HISTORY AND PHILOSOPHY OF SCIENCE	8	12	15	7	13	-4.4	85.7
LINGUISTICS	19	38	32	28	29	13.8	3.6
POLITICAL SCIENCE	17	23	37	28	37	18.1	32.1
SOCIOLOGY	73	57	54	52	64	-10.7	23.1
SOCIOLOGY/ANTHROPOLOGY	2	1	0	1	1	-20.6	.0
SOCIAL SCIENCES, N.E.C.	26	21	27	20	22	-8.4	10.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-32. — FEMALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	3,347	3,552	4,049	4,383	4,812	9.4	9.8
ENGINEERING	50	65	82	85	88	19.3	3.5
AEROSPACE	0	0	2	0	0	**	**
AGRICULTURAL	1	1	0	0	0	-100.0	**
BIOMEDICAL	6	5	6	6	4	.0	-33.3
CHEMICAL	12	21	11	21	26	20.5	23.8
CIVIL	5	10	8	7	6	11.9	-14.3
ELECTRICAL	3	5	10	17	12	78.3	-29.4
ENGINEERING SCIENCE	4	5	3	6	3	14.5	-50.0
INDUSTRIAL	1	0	3	1	2	.0	100.0
MECHANICAL	2	3	10	5	6	35.7	20.0
METALLURGICAL/MATERIALS	11	12	16	16	24	13.3	50.0
MINING	0	0	5	0	0	**	**
NUCLEAR	2	1	4	2	1	.0	-50.0
PETROLEUM	0	0	0	1	1	**	.0
ENGINEERING, N.E.C.	3	2	4	3	3	.0	.0
PHYSICAL SCIENCES	407	433	479	518	537	10.2	3.7
ASTRONOMY	10	13	10	15	18	14.5	20.0
CHEMISTRY	306	334	370	401	430	9.4	7.2
PHYSICS	70	86	99	102	88	13.4	-13.7
PHYSICAL SCIENCES, N.E.C.	1	0	0	0	1	-100.0	**
ENVIRONMENTAL SCIENCES	30	35	34	51	62	19.3	21.6
ATMOSPHERIC SCIENCES	1	2	4	3	4	44.2	33.3
GEOSCIENCES	26	22	21	30	28	4.9	-6.7
OCEANOGRAPHY	3	9	9	17	29	78.3	70.6
ENVIRONMENTAL SCIENCES, N.E.C.	0	2	0	1	1	**	.0
MATHEMATICAL/COMPUTER SCIENCES	22	16	19	25	26	4.4	4.0
COMPUTER SCIENCE	2	2	6	9	10	65.1	11.1
MATHEMATICS AND APPLIED MATHEMATICS	17	13	12	12	11	-11.0	-8.3
STATISTICS	3	1	1	4	5	10.1	25.0
LIFE SCIENCES	2,560	2,706	3,196	3,371	3,803	9.6	12.8
AGRICULTURAL SCIENCES	26	30	35	33	54	8.3	63.6
BIOLOGICAL SCIENCES	1,711	1,808	2,028	2,211	2,416	8.9	9.3
ANATOMY	66	67	73	74	87	3.9	17.6
BIOCHEMISTRY	353	388	416	466	505	9.7	8.4
BIOLOGY	268	291	282	303	327	4.2	7.9
BIOMETRY/EPIDEMIOLOGY	28	25	23	17	23	-15.3	35.3
BIOPHYSICS	22	37	25	24	49	2.9	104.2
BOTANY	39	59	62	89	97	31.7	9.0
CELL BIOLOGY	95	115	154	161	184	19.2	14.3
ECOLOGY	1	3	11	4	2	58.7	-50.0
ENTOMOLOGY/PARASITOLOGY	23	19	24	14	19	-15.3	35.7
GENETICS	74	88	110	122	125	18.1	2.5
MICROBIOLOGY	236	231	273	300	307	8.3	2.3
NUTRITION	49	31	50	39	46	-7.3	17.9
PATHOLOGY	103	114	101	181	186	20.7	2.8
PHARMACOLOGY	141	129	156	165	199	5.4	20.6
PHYSIOLOGY	135	140	178	167	183	7.3	9.6
ZOOLOGY	60	52	73	68	58	4.3	-14.7
BIOSCIENCES, N.E.C.	18	19	17	17	19	-1.9	11.8
HEALTH SCIENCES	823	868	1,133	1,127	1,333	11.0	18.3
ANESTHESIOLOGY	3	5	16	22	15	94.3	-31.8
CANCER/ONCOLOGY	14	21	33	27	51	24.5	88.9
CARDIOLOGY	28	42	44	44	49	31.7	-23.4
DENTISTRY	20	17	22	43	41	29.1	-4.7
ENDOCRINOLOGY	18	29	31	44	51	34.7	15.9
GASTROENTEROLOGY	19	17	21	17	13	-3.6	-23.5
HEMATOLOGY	22	23	30	38	50	20.0	31.6
NEUROLOGY	39	56	56	53	85	10.8	60.4
NURSING	4	7	2	0	5	-100.0	**
OBSTETRICS/GYNECOLOGY	25	28	38	31	35	7.4	12.9
OPHTHALMOLOGY	30	26	33	33	45	3.2	36.4
OTORHINOLARYNGOLOGY	5	4	5	0	2	-100.0	**
PEDIATRICS	136	121	206	176	196	9.0	11.4
PHARMACEUTICAL SCIENCES	33	24	36	53	54	17.1	1.9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	23	60	47	49	49	28.7	.0
PSYCHIATRY	95	96	111	110	101	5.0	-8.2
PULMONARY DISEASE	11	13	9	18	36	17.8	100.0
RADIOLOGY	22	22	39	33	35	14.5	6.1
SPEECH PATHOLOGY/AUDIOLOGY	16	7	9	5	10	-32.1	100.0
SURGERY	33	25	21	29	47	-4.2	62.1
VETERINARY SCIENCES	7	15	14	25	19	52.9	-24.0
CLINICAL MEDICINE, N.E.C.	195	174	279	227	303	5.2	33.5
HEALTH RELATED, N.E.C.	25	36	31	30	41	6.3	36.7
PSYCHOLOGY	156	173	181	218	179	11.8	-17.9
SOCIAL SCIENCES	142	124	108	115	117	-6.8	1.7
AGRICULTURAL ECONOMICS	0	0	0	1	6	**	500.0
ANTHROPOLOGY	18	19	15	21	28	5.3	33.3
ECONOMICS (EXCEPT AGRICULTURAL)	17	25	8	3	4	-43.9	33.3
GEOGRAPHY	3	3	7	1	0	-30.7	-100.0
HISTORY AND PHILOSOPHY OF SCIENCE	3	3	6	7	6	32.6	-14.3
LINGUISTICS	11	16	15	19	22	20.0	15.8
POLITICAL SCIENCE	12	7	9	16	6	10.1	-62.5
SOCIOLOGY	42	42	36	37	38	-4.1	2.7
SOCIOLOGY/ANTHROPOLOGY	2	2	0	1	0	-20.6	-100.0
SOCIAL SCIENCES, N.E.C.	34	7	12	9	7	-35.8	-22.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-1. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	298,159	306,569	309,835	320,580	333,669	339,968	346,796	358,276	2.6	3.3	2.7
ENGINEERING	62,911	64,423	64,269	67,152	70,143	74,373	78,178	85,973	3.7	10.0	4.6
AEROSPACE	1,449	1,496	1,450	1,476	1,730	1,876	1,923	2,376	4.9	22.9	7.3
AGRICULTURAL	639	709	742	740	742	802	875	969	5.4	10.7	6.1
BIOMEDICAL	928	870	936	1,006	963	1,012	1,064	1,185	2.3	11.4	3.6
CHEMICAL	5,070	5,071	5,184	5,420	5,859	6,264	6,929	7,352	5.3	6.1	5.5
CIVIL	11,321	11,800	11,920	12,281	12,574	13,301	13,531	14,506	3.0	7.2	3.6
ELECTRICAL	15,211	16,356	16,478	16,818	18,140	18,900	20,582	23,112	5.2	12.3	6.2
ENGINEERING SCIENCE	1,720	1,620	1,710	1,516	1,633	1,753	1,840	1,981	1.1	7.7	2.0
INDUSTRIAL	10,025	9,650	8,967	10,114	9,196	9,188	9,008	9,133	-1.8	8.0	-.4
MECHANICAL	7,868	8,132	8,122	8,554	9,155	9,913	10,767	12,119	5.4	12.6	6.4
METALLURGICAL/MATERIALS	2,332	2,490	2,487	2,656	2,839	3,047	3,030	3,336	4.5	10.1	5.2
MINING	504	445	410	383	406	444	424	498	-2.8	17.5	-.2
NUCLEAR	1,588	1,472	1,391	1,314	1,241	1,283	1,301	1,203	-3.3	-7.5	-3.9
PETROLEUM	376	379	427	423	491	518	580	724	7.5	24.8	9.8
ENGINEERING, N.E.C.	3,880	3,933	4,045	4,451	5,174	6,072	6,314	6,879	8.5	8.9	8.5
PHYSICAL SCIENCES	24,826	24,816	24,718	24,924	25,393	25,780	26,499	27,701	1.1	4.5	1.6
ASTRONOMY	694	649	630	652	628	597	632	618	-1.5	-2.2	-1.6
CHEMISTRY	14,404	14,603	14,802	14,886	15,105	15,244	15,778	16,535	1.5	4.8	2.0
PHYSICS	9,639	9,473	9,198	9,319	9,579	9,864	10,018	10,489	.6	4.7	1.2
PHYSICAL SCIENCES, N.E.C.	89	91	88	67	81	75	71	59	-3.7	-16.9	-5.7
ENVIRONMENTAL SCIENCES	11,737	12,301	12,243	12,575	12,795	13,063	13,757	14,283	2.7	3.8	2.8
ATMOSPHERIC SCIENCES	917	914	871	840	870	873	877	884	-.7	.8	-.5
GEOSCIENCES	7,247	7,515	7,634	7,973	8,125	8,287	9,046	9,686	3.8	7.1	4.2
OCEANOGRAPHY	1,738	1,913	1,833	1,829	1,847	1,933	1,934	1,961	1.8	1.4	1.7
ENVIRONMENTAL SCIENCES, N.E.C.	1,835	1,959	1,905	1,933	1,953	1,970	1,900	1,752	.6	-7.8	-.7
MATHEMATICAL/COMPUTER SCIENCES	21,718	21,126	21,523	22,668	25,009	27,145	30,334	33,465	5.7	10.3	6.4
COMPUTER SCIENCE	6,967	7,232	8,329	9,488	11,384	13,141	15,576	18,522	14.3	18.9	15.0
MATHEMATICS AND APPLIED MATHEMATICS	12,904	12,086	11,452	11,427	11,741	12,150	12,847	13,034	-.1	1.5	.1
STATISTICS	1,847	1,808	1,742	1,753	1,884	1,854	1,911	1,909	.6	-.1	.5
LIFE SCIENCES	77,184	83,344	85,915	87,462	90,660	90,908	90,703	91,295	2.7	.7	2.4
AGRICULTURAL SCIENCES	10,601	10,947	11,088	11,294	11,579	11,347	11,577	11,515	1.5	-.5	1.2
BIOLOGICAL SCIENCES	41,962	43,157	43,135	42,581	42,676	41,983	41,877	41,673	*	-.5	-.1
ANATOMY	1,158	1,188	1,164	1,133	1,082	1,072	1,074	1,053	-1.2	-2.0	-1.3
BIOCHEMISTRY	3,727	3,821	3,976	3,924	3,991	4,022	4,090	4,231	1.6	3.4	1.8
BIOLOGY	11,861	11,720	11,164	10,889	10,782	10,152	9,870	9,724	-3.0	-1.5	-2.8
BIOMETRY/EPIDEMIOLOGY	870	1,058	1,140	1,128	1,259	1,182	1,166	1,156	5.0	-.9	4.1
BIOPHYSICS	594	570	525	525	485	463	440	456	-4.9	3.6	-3.7
BOTANY	3,703	3,821	3,746	3,575	3,561	3,457	3,602	3,405	-.5	-5.5	-1.2
CELL BIOLOGY	762	825	847	894	965	1,018	1,143	1,173	7.0	2.6	6.4
ECOLOGY	885	1,020	1,090	954	1,130	1,048	1,018	962	2.4	-5.5	1.2
ENTOMOLOGY/PARASITOLOGY	1,595	1,602	1,683	1,697	1,722	1,664	1,540	1,475	-.6	-4.2	-1.1
GENETICS	856	978	958	922	912	887	940	986	1.6	4.9	2.0
MICROBIOLOGY	4,090	4,201	4,090	3,978	3,978	3,889	3,992	4,099	-.4	2.7	*
NUTRITION	3,014	3,595	3,730	3,676	3,853	4,121	4,103	4,096	5.3	-.2	4.5
PATHOLOGY	1,244	1,316	1,348	1,420	1,390	1,404	1,413	1,459	2.1	3.3	2.3
PHARMACOLOGY	1,705	1,791	1,896	1,996	2,005	2,013	2,073	2,091	3.3	.9	3.0
PHYSIOLOGY	2,161	2,058	2,169	2,192	2,104	2,144	2,058	2,020	-.8	-1.8	-1.0
ZOOLOGY	3,244	3,030	2,983	2,863	2,650	2,584	2,471	2,423	-4.4	-1.9	-4.1
BIOSCIENCES, N.E.C.	493	563	626	815	807	863	884	864	10.2	-2.3	8.3
HEALTH SCIENCES	24,621	29,240	31,692	33,587	36,405	37,578	37,249	38,107	7.1	2.3	6.4
ANESTHESIOLOGY	5	5	10	20	17	20	38	43	40.2	13.2	36.0
CANCER/ONCOLOGY	72	75	66	63	56	55	71	74	-.2	4.2	.4
CARDIOLOGY	2	5	3	3	17	3	3	3	7.0	.0	6.0
DENTISTRY	889	960	968	1,029	1,002	942	836	816	-1.0	-2.4	-1.2
ENDOCRINOLOGY	36	32	32	49	53	51	53	64	6.7	20.8	8.6
GASTROENTEROLOGY	8	8	5	0	0	4	1	0	-29.3	-100.0	-100.0
HEMATOLOGY	4	18	17	20	16	9	7	10	9.6	42.9	14.0
NEUROLOGY	218	233	241	232	220	177	190	247	-2.3	30.0	1.8
NURSING	6,622	9,987	10,844	11,701	12,750	14,071	14,297	14,924	13.7	4.4	12.3
OBSTETRICS/GYNECOLOGY	59	27	26	36	6	13	19	17	-17.2	-10.5	-16.3
OPHTHALMOLOGY	13	16	3	6	16	22	11	10	-2.7	-9.1	-3.7
OTORHINOLARYNGOLOGY	63	45	43	13	14	11	12	6	-24.1	-50.0	-28.5
PEDIATRICS	215	152	137	131	138	149	154	151	-5.4	-1.9	-4.9
PHARMACEUTICAL SCIENCES	2,217	2,444	2,491	2,412	2,408	2,523	2,496	2,585	2.0	3.6	2.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,409	4,456	5,510	6,299	7,013	7,130	6,676	6,494	7.2	-2.7	5.7
PSYCHIATRY	147	150	140	133	63	106	125	149	-2.7	19.2	.2
PULMONARY DISEASE	0	3	10	1	15	9	12	2	**	-83.3	**
RADIOLOGY	285	311	246	283	283	277	290	231	.3	-20.3	-3.0
SPEECH PATHOLOGY/AUDIOLOGY	6,159	6,421	6,705	6,461	6,748	6,545	6,756	6,790	1.6	.5	1.4
SURGERY	170	154	146	91	101	117	112	95	-6.7	-15.2	-8.0
VETERINARY SCIENCES	400	466	465	520	496	458	446	440	1.8	-1.3	1.4
CLINICAL MEDICINE, N.E.C.	233	302	284	342	397	370	413	409	10.0	-1.0	8.4
HEALTH RELATED, N.E.C.	2,395	2,970	3,300	3,842	4,568	4,516	4,231	4,547	9.9	7.5	9.6
PSYCHOLOGY	28,090	28,058	27,911	27,973	29,384	29,052	29,082	29,095	.6	*	.5
SOCIAL SCIENCES	71,693	72,501	73,256	77,826	80,488	79,647	78,243	76,464	1.5	-2.3	.9
AGRICULTURAL ECONOMICS	2,159	2,198	2,230	2,198	2,301	2,235	2,223	2,237	.5	.6	.5
ANTHROPOLOGY	6,206	6,188	5,893	5,911	5,923	5,805	5,688	5,448	-1.4	-4.2	-1.8
ECONOMICS (EXCEPT AGRICULTURAL)	10,971	11,115	11,214	11,286	12,231	12,407	12,652	12,440	2.4	-1.7	1.8
GEOGRAPHY	2,989	2,798	2,781	2,581	2,723	2,736	2,705	2,627	-1.7	-2.9	-1.8
HISTORY AND PHILOSOPHY OF SCIENCE	322	300	281	265	280	248	256	253	-3.8	-1.2	-3.4
LINGUISTICS	2,537	2,395	2,307	2,926	2,872	3,010	2,674	2,813	.9	5.2	1.5
POLITICAL SCIENCE	19,836	19,891	20,685	23,582	24,447	24,001	23,779	22,381	3.1	-5.9	1.7
SOCIOLOGY	8,245	7,773	7,009	7,202	7,216	7,037	6,653	6,391	-3.5	-3.9	-3.6
SOCIOLOGY/ANTHROPOLOGY	1,227	1,266	1,166	1,138	1,095	1,021	1,042	1,014	-2.7	-2.7	-2.7
SOCIAL SCIENCES, N.E.C.	17,201	18,577	19,690	20,737	21,197	21,147	20,571	20,860	3.0	1.4	2.8

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-2. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	205,904	209,043	210,675	216,491	224,683	226,568	234,265	242,703	2.2	3.6	2.4
ENGINEERING	38,554	38,735	38,686	40,109	42,662	45,159	49,238	54,214	4.2	10.1	5.0
AEROSPACE	1,063	1,059	1,021	1,037	1,208	1,322	1,332	1,716	3.8	28.8	7.1
AGRICULTURAL	606	673	702	703	704	758	821	916	5.2	11.6	6.1
BIOMEDICAL	517	453	480	520	525	563	614	662	2.9	7.8	3.6
CHEMICAL	3,381	3,350	3,411	3,598	3,954	4,145	4,675	4,943	5.5	5.7	5.6
CIVIL	7,826	8,294	8,351	8,537	8,725	8,786	9,214	10,052	2.8	9.1	3.6
ELECTRICAL	8,773	9,232	9,041	9,307	9,903	10,307	11,570	12,953	4.7	12.0	5.7
ENGINEERING SCIENCE	1,220	1,099	1,133	951	1,052	1,178	1,248	1,363	.4	9.2	1.6
INDUSTRIAL	4,215	3,746	3,694	4,105	4,142	4,178	4,511	4,528	1.1	.4	1.0
MECHANICAL	5,348	5,182	5,298	5,442	5,870	6,416	7,115	8,171	4.9	14.8	6.2
METALLURGICAL/MATERIALS	1,420	1,480	1,494	1,618	1,687	1,790	1,815	1,978	4.2	9.0	4.8
MINING	410	359	323	300	323	362	352	430	-2.5	22.2	.7
NUCLEAR	1,164	1,085	1,042	1,000	951	993	1,018	963	-2.2	-5.4	-2.7
PETROLEUM	226	228	262	247	260	268	315	451	5.7	43.2	10.4
ENGINEERING, N.E.C.	2,385	2,495	2,434	2,744	3,358	4,093	4,638	5,088	11.7	9.7	11.4
PHYSICAL SCIENCES	17,238	17,244	17,218	17,448	17,731	18,009	18,789	19,610	1.4	4.4	1.9
ASTRONOMY	465	425	423	435	421	393	420	419	-1.7	-.2	-1.5
CHEMISTRY	10,282	10,361	10,499	10,624	10,793	10,881	11,392	11,943	1.7	4.8	2.2
PHYSICS	6,402	6,367	6,220	6,322	6,448	6,672	6,906	7,189	1.3	4.1	1.7
PHYSICAL SCIENCES, N.E.C.	89	91	76	67	69	63	71	59	-3.7	-16.9	-5.7
ENVIRONMENTAL SCIENCES	9,677	10,113	10,024	10,487	10,614	10,822	11,405	11,898	2.8	4.3	3.0
ATMOSPHERIC SCIENCES	852	859	825	793	797	781	779	831	-1.5	6.7	-.4
GEOSCIENCES	5,655	5,950	6,084	6,414	6,578	6,715	7,407	7,921	4.6	6.9	4.9
OCEANOGRAPHY	1,508	1,562	1,478	1,617	1,604	1,695	1,641	1,657	1.4	1.0	1.4
ENVIRONMENTAL SCIENCES, N.E.C.	1,662	1,742	1,637	1,663	1,635	1,631	1,578	1,489	-.9	-5.6	-1.6
MATHEMATICAL/COMPUTER SCIENCES	15,772	14,949	15,092	15,463	16,672	17,310	19,474	21,490	3.6	10.4	4.5
COMPUTER SCIENCE	5,515	5,321	5,845	6,380	7,478	8,037	9,608	11,467	9.7	19.3	11.0
MATHEMATICS AND APPLIED MATHEMATICS	8,786	8,160	7,813	7,633	7,643	7,732	8,245	8,406	-1.1	2.0	-.6
STATISTICS	1,471	1,468	1,434	1,450	1,551	1,541	1,621	1,617	1.6	-.2	1.4
LIFE SCIENCES	60,492	63,773	65,513	66,434	68,960	68,167	68,592	69,353	2.1	1.1	2.0
AGRICULTURAL SCIENCES	10,349	10,682	10,812	10,977	11,285	11,055	11,305	11,227	1.5	-.7	1.2
BIOLOGICAL SCIENCES	31,118	31,899	31,886	31,356	31,660	30,954	30,666	30,677	-.2	*	-.2
ANATOMY	837	838	820	787	710	702	669	691	-3.7	3.3	-2.7
BIOCHEMISTRY	2,628	2,686	2,695	2,650	2,683	2,651	2,718	2,839	.6	4.5	1.1
BIOLOGY	7,438	7,281	7,033	6,867	6,990	6,514	6,195	6,292	-3.0	1.6	-2.4
BIOMETRY/EPIDEMIOLOGY	444	589	666	645	750	672	632	639	6.1	1.1	5.3
BIOPHYSICS	362	341	321	321	288	273	250	251	-6.0	.4	-5.1
BOTANY	3,451	3,577	3,478	3,310	3,286	3,183	3,333	3,148	-.6	-5.6	-1.3
CELL BIOLOGY	481	511	527	568	586	598	635	645	4.7	1.6	4.3
ECOLOGY	818	962	1,030	902	1,080	993	970	905	2.9	-6.7	1.5
ENTOMOLOGY/PARASITOLOGY	1,532	1,542	1,610	1,629	1,664	1,604	1,490	1,426	-.5	-4.3	-1.0
GENETICS	644	731	722	694	657	643	679	713	.9	5.0	1.5
MICROBIOLOGY	3,198	3,238	3,164	3,059	3,088	2,943	2,984	3,078	-1.1	3.2	-.5
NUTRITION	2,391	2,847	2,985	2,893	3,063	3,263	3,218	3,223	5.1	.2	4.4
PATHOLOGY	716	766	807	864	869	895	904	945	4.0	4.5	4.0
PHARMACOLOGY	1,161	1,185	1,238	1,336	1,332	1,355	1,418	1,408	3.4	-.7	2.8
PHYSIOLOGY	1,575	1,500	1,495	1,475	1,457	1,488	1,418	1,391	-1.7	-1.9	-1.8
ZOOLOGY	3,061	2,846	2,769	2,649	2,454	2,410	2,320	2,270	-4.5	-2.2	-4.2
BIOSCIENCES, N.E.C.	381	449	526	707	703	767	833	813	13.9	-2.4	11.4
HEALTH SCIENCES	19,025	21,192	22,815	24,101	26,015	26,158	26,621	27,449	5.8	3.1	5.4
ANESTHESIOLOGY	5	2	3	14	13	15	34	26	37.6	-23.5	26.6
CANCER/ONCOLOGY	47	49	49	47	46	46	56	56	3.0	.0	2.5
CARDIOLOGY	2	2	2	1	0	0		0	-100.0	**	-100.0
DENTISTRY	576	639	642	649	674	648	611	541	1.0	-11.5	-.9
ENDOCRINOLOGY	33	32	31	49	53	51	53	60	8.2	13.2	8.9
GASTROENTEROLOGY	8	8	5	0	0	3	1	0	-29.3	-100.0	-100.0
HEMATOLOGY	3	1	3	10	8	6	6	7	12.2	16.7	12.9
NEUROLOGY	129	155	175	175	164	131	139	149	1.3	7.2	2.1
NURSING	5,414	6,975	7,790	8,297	9,396	9,869	10,405	11,021	11.5	5.9	10.7
OBSTETRICS/GYNECOLOGY	42	17	17	21	1	2	10	14	-21.3	40.0	-14.5
OPHTHALMOLOGY	7	13	2	4	11	13	8	8	2.3	.0	1.9
OTORHINOLARYNGOLOGY	47	19	28	11	8	7	5	5	-24.1	-44.4	-27.4
PEDIATRICS	199	130	114	66	84	92	99	86	-11.0	-13.1	-11.3
PHARMACEUTICAL SCIENCES	1,492	1,599	1,590	1,581	1,650	1,708	1,714	1,750	2.3	2.1	2.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,167	3,098	3,560	4,179	4,479	4,497	4,005	3,971	4.0	-.8	3.3
PSYCHIATRY	52	69	73	78	60	72	108	127	13.6	17.6	13.6
PULMONARY DISEASE	0	3	9	1	7	7	12	2	**	-83.3	**
RADIOLOGY	180	215	182	220	216	179	211	190	2.7	-10.0	.8
SPEECH PATHOLOGY/AUDIOLOGY	5,300	5,570	5,768	5,513	5,679	5,511	5,780	5,741	1.5	-.7	1.1
SURGERY	132	114	119	71	83	71	90	68	-6.2	-24.4	-9.0
VETERINARY SCIENCES	348	407	407	461	445	410	406	401	2.6	-1.2	2.0
CLINICAL MEDICINE, N.E.C.	204	284	249	290	314	302	286	278	5.8	-2.8	4.5
HEALTH RELATED, N.E.C.	1,638	1,791	1,997	2,363	2,624	2,578	2,578	2,948	7.9	14.4	8.8
PSYCHOLOGY	16,978	16,773	16,224	16,188	16,773	16,551	16,949	16,967	*	.1	*
SOCIAL SCIENCES	47,193	47,456	47,918	50,362	51,271	50,550	49,818	49,171	.9	-1.3	.6
AGRICULTURAL ECONOMICS	2,079	2,119	2,145	2,098	2,174	2,133	2,127	2,146	.4	.9	.5
ANTHROPOLOGY	4,513	4,455	4,273	4,344	4,255	4,133	4,033	3,866	-1.9	-4.1	-2.2
ECONOMICS (EXCEPT AGRICULTURAL)	6,881	6,850	7,059	6,911	7,467	7,465	7,792	7,699	2.1	-1.2	1.6
GEOGRAPHY	2,705	2,533	2,500	2,327	2,437	2,462	2,473	2,409	-1.5	-2.6	-1.6
HISTORY AND PHILOSOPHY OF SCIENCE	164	163	153	148	165	141	148	141	-1.7	-4.7	-2.1
LINGUISTICS	1,503	1,526	1,503	1,642	1,671	1,840	1,834	1,886	3.4	2.8	3.3
POLITICAL SCIENCE	10,937	11,005	11,104	12,693	13,222	13,047	12,794	12,221	2.6	-4.5	1.6
SOCIOLOGY	5,633	5,370	5,043	5,116	5,017	4,794	4,602	4,498	-3.3	-2.3	-3.2
SOCIOLOGY/ANTHROPOLOGY	797	745	674	637	623	557	582	553	-5.1	-5.0	-5.1
SOCIAL SCIENCES, N.E.C.	11,981	12,690	13,464	14,446	14,240	13,978	13,433	13,752	1.9	2.4	2.0

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-3. -- SCIENCE/ENGINEERING GRADUATE STUDENTS
IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	92,235	97,526	99,160	104,089	108,986	113,400	112,531	115,573	3.4	2.7	3.3
ENGINEERING	24,357	25,688	25,583	27,043	27,481	29,214	28,940	31,759	2.9	9.7	3.9
AEROSPACE	386	437	429	439	522	554	601	660	7.7	9.8	8.0
AGRICULTURAL	33	36	40	37	38	44	54	53	8.6	-1.9	7.0
BIOMEDICAL	411	417	456	486	438	449	450	523	1.5	16.2	3.5
CHEMICAL	1,689	1,721	1,773	1,822	1,905	2,119	2,254	2,409	4.9	6.9	5.2
CIVIL	3,495	3,506	3,566	3,744	3,849	4,515	4,317	4,454	3.6	3.2	3.5
ELECTRICAL	6,438	7,124	7,437	7,511	8,237	8,393	9,012	10,159	5.8	12.7	6.7
ENGINEERING SCIENCE	500	521	577	565	581	575	592	618	2.9	4.4	3.1
INDUSTRIAL	5,810	5,904	5,273	6,009	5,054	5,010	4,497	5,205	-4.7	13.7	-1.6
MECHANICAL	2,520	2,950	2,824	3,112	3,285	3,497	3,652	3,948	6.4	8.1	6.6
METALLURGICAL/MATERIALS	912	1,010	993	1,038	1,152	1,257	1,215	1,358	4.9	11.8	5.9
MINING	94	86	87	83	83	82	72	68	-4.3	-5.6	-4.5
NUCLEAR	424	387	349	314	290	290	283	240	-6.5	-15.2	-7.8
PETROLEUM	150	151	165	176	231	250	265	273	9.9	3.0	8.9
ENGINEERING, N.E.C.	1,495	1,438	1,611	1,707	1,816	1,979	1,676	1,791	1.9	6.9	2.6
PHYSICAL SCIENCES	7,588	7,572	7,500	7,476	7,662	7,771	7,710	8,091	.3	4.9	.9
ASTRONOMY	229	224	207	217	207	204	212	199	-1.3	-6.1	-2.0
CHEMISTRY	4,122	4,242	4,303	4,262	4,317	4,363	4,386	4,592	1.0	4.7	1.6
PHYSICS	3,237	3,106	2,978	2,997	3,131	3,192	3,112	3,300	-.7	6.0	.3
PHYSICAL SCIENCES, N.E.C.	0	0	12	0	12	12	0	0	**	**	**
ENVIRONMENTAL SCIENCES	2,060	2,188	2,219	2,088	2,181	2,241	2,352	2,385	2.2	1.4	2.1
ATMOSPHERIC SCIENCES	65	55	46	47	73	92	98	53	7.1	-45.9	-2.9
GEOSCIENCES	1,592	1,565	1,550	1,559	1,547	1,572	1,639	1,765	.5	7.7	1.5
OCEANOGRAPHY	230	351	355	212	243	238	293	304	4.1	3.8	4.1
ENVIRONMENTAL SCIENCES, N.E.C.	173	217	268	270	318	339	322	263	10.9	-18.3	6.2
MATHEMATICAL/COMPUTER SCIENCES	5,946	6,177	6,431	7,205	8,337	9,835	10,860	11,975	10.6	10.3	10.5
COMPUTER SCIENCE	1,452	1,911	2,484	3,108	3,906	5,104	5,968	7,055	26.6	18.2	25.3
MATHEMATICS AND APPLIED MATHEMATICS	4,118	3,926	3,639	3,794	4,098	4,418	4,602	4,628	1.9	.6	1.7
STATISTICS	376	340	308	303	333	313	290	292	-4.2	.7	-3.5
LIFE SCIENCES	16,692	19,571	20,402	21,028	21,700	22,741	22,111	21,942	4.8	-.8	4.0
AGRICULTURAL SCIENCES	252	265	276	317	294	294	272	288	1.3	5.9	1.9
BIOLOGICAL SCIENCES	10,844	11,258	11,249	11,225	11,016	11,029	11,211	10,996	.6	-1.9	.2
ANATOMY	321	350	344	346	372	370	405	362	4.0	-10.6	1.7
BIOCHEMISTRY	1,099	1,135	1,281	1,274	1,308	1,371	1,372	1,392	3.8	1.5	3.4
BIOLOGY	4,423	4,439	4,131	4,022	3,792	3,638	3,675	3,432	-3.0	-6.6	-3.6
BIOMETRY/EPIDEMIOLOGY	426	469	474	483	509	510	534	517	3.8	-3.2	2.8
BIOPHYSICS	232	229	204	204	197	190	190	205	-3.3	7.9	-1.8
BOTANY	252	244	268	265	275	274	269	257	1.1	-4.5	.3
CELL BIOLOGY	281	304	320	326	379	420	508	528	10.4	3.9	9.4
ECOLOGY	67	58	60	52	50	55	48	57	-5.4	18.8	-2.3
ENTOMOLOGY/PARASITOLOGY	63	60	73	68	58	60	50	49	-3.8	-2.0	-3.5
GENETICS	212	247	236	228	255	244	261	273	3.5	4.6	3.7
MICROBIOLOGY	892	963	926	919	890	946	1,008	1,021	2.1	1.3	1.9
NUTRITION	623	748	745	783	790	858	885	873	6.0	-1.4	4.9
PATHOLOGY	528	550	541	556	521	509	509	514	-.6	1.0	-.4
PHARMACOLOGY	544	606	658	660	673	658	655	683	3.1	4.3	3.3
PHYSIOLOGY	586	558	674	717	647	656	640	629	1.5	-1.7	1.0
ZOOLOGY	183	184	214	214	196	174	151	153	-3.2	1.3	-2.5
BIOSCIENCES, N.E.C.	112	114	100	108	104	96	51	51	-12.3	.0	-10.6
HEALTH SCIENCES	5,596	8,048	8,877	9,486	10,390	11,420	10,628	10,658	11.3	.3	9.6
ANESTHESIOLOGY	0	3	7	6	4	5	4	17	**	325.0	**
CANCER/ONCOLOGY	25	26	17	16	10	9	15	18	-8.2	20.0	-4.6
CARDIOLOGY	0	3	1	2	17	3	3	3	**	.0	**
DENTISTRY	313	321	326	380	328	294	225	275	-5.4	22.2	-1.8
ENDOCRINOLOGY	3	0	1	0	0	0	0	4	-100.0	**	4.2
GASTROENTEROLOGY	0	0	0	0	0	1	0	0	**	**	**
HEMATOLOGY	1	17	14	10	8	3	1	3	.0	200.0	17.0
NEUROLOGY	89	78	66	57	56	46	51	98	-8.9	92.2	1.4
NURSING	1,208	3,012	3,054	3,304	3,354	4,262	3,892	3,903	21.5	.3	18.2
OBSTETRICS/GYNECOLOGY	17	10	9	15	5	11	9	3	-10.1	-66.7	-21.9
OPHTHALMOLOGY	6	3	1	2	5	9	3	2	-10.9	-33.3	-14.5
OTORHINOLARYNGOLOGY	16	26	15	2	6	4	3	1	-24.3	-66.7	-32.7
PEDIATRICS	16	22	23	65	54	57	55	65	22.8	18.2	27.2
PHARMACEUTICAL SCIENCES	725	845	901	831	758	815	782	835	1.3	6.8	2.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,242	1,358	1,380	2,120	2,534	2,633	2,671	2,523	13.6	-5.5	10.7
PSYCHIATRY	95	81	67	55	3	34	17	22	-24.9	29.4	-18.9
PULMONARY DISEASE	0	0	1	0	8	2	0	0	**	**	**
RADIOLOGY	105	96	84	63	67	98	79	41	-4.6	-48.1	-12.6
SPEECH PATHOLOGY/AUDIOLOGY	859	851	937	948	1,049	1,034	976	1,049	2.2	7.5	2.9
SURGERY	38	40	27	20	26	46	42	27	-8.7	22.7	-4.8
VETERINARY SCIENCES	52	59	58	59	51	48	41	39	-4.3	-2.5	-4.0
CLINICAL MEDICINE, N.E.C.	29	18	35	52	83	68	127	131	27.9	3.1	24.0
HEALTH RELATED, N.E.C.	757	1,179	1,303	1,479	1,944	1,938	1,653	1,599	13.9	-3.3	11.3
PSYCHOLOGY	11,115	11,285	11,687	11,785	12,611	12,501	12,133	12,128	1.5	*	1.3
SOCIAL SCIENCES	24,500	25,045	25,338	27,464	29,014	29,097	28,425	27,293	2.5	-4.0	1.6
AGRICULTURAL ECONOMICS	80	73	85	100	127	102	96	91	3.1	-5.2	1.9
ANTHROPOLOGY	1,693	1,733	1,620	1,567	1,668	1,672	1,655	1,582	-.4	-4.4	-1.0
ECONOMICS (EXCEPT AGRICULTURAL)	4,090	4,265	4,155	4,375	4,764	4,942	4,860	4,741	2.9	-2.4	2.1
GEOGRAPHY	284	265	281	254	286	274	232	218	-3.3	-6.0	-3.7
HISTORY AND PHILOSOPHY OF SCIENCE	158	137	128	117	115	107	108	112	-6.1	3.7	-4.8
LINGUISTICS	1,034	869	804	1,284	1,201	1,170	840	927	-3.4	10.4	-1.5
POLITICAL SCIENCE	8,899	8,886	9,581	10,889	11,225	10,954	10,985	10,167	3.6	-7.5	1.9
SOCIOLOGY	2,612	2,403	1,966	2,086	2,199	2,243	2,051	1,893	-3.9	-7.7	-4.5
SOCIOLOGY/ANTHROPOLOGY	430	521	492	501	472	464	460	461	1.1	.2	1.0
SOCIAL SCIENCES, N.E.C.	5,220	5,887	6,226	6,291	6,957	7,189	7,138	7,108	5.4	-.4	4.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-4. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1976-83

DIVISION AND STATE	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL INSTITUTIONS	298,159	306,569	309,835	320,580	333,669	339,[illegible]48	346,796	358,276	2.6	3.3	2.7
NEW ENGLAND	22,078	22,209	22,9[illegible]	23,970	25,633	26,215	[illegible]6,810	28,1[illegible]	3.3	4.9	3.5
CONNECTICUT	3,686	3,418	3,474	3,626	3,902	4,053	4,182	4,[illegible]71	2.1	2.1	2.1
MAINE	512	469	487	475	467	395	416	[illegible]09	-3.4	22.[illegible]	-.1
MASSACHUSETTS	15,031	15,444	16,087	16,904	18,285	18,730	19,056	20,067	4.0	5.3	4.2
NEW HAMPSHIRE	676	723	666	701	752	733	782	800	2.5	2.3	2.4
RHODE ISLAND	1,688	1,675	1,753	1,753	1,700	1,739	1,739	1,851	.5	6.4	1.3
VERMONT	485	480	450	506	527	565	635	634	4.6	-.2	3.9
MIDDLE ATLANTIC	52,268	54,373	54,340	56,764	61,005	64,822	65,222	67,420	3.8	3.4	3.7
NEW JERSEY	7,186	7,298	8,795	8,851	9,182	9,332	9,172	9,619	4.2	4.9	4.3
NEW YORK	31,159	33,111	31,868	33,766	36,071	38,565	39,108	40,203	3.9	2.8	3.7
PENNSYLVANIA	13,923	13,964	13,677	14,147	15,752	16,926	16,942	17,598	3.3	3.9	3.4
EAST NORTH CENTRAL	55,917	57,075	57,016	58,440	60,007	59,761	60,533	62,782	1.3	3.7	1.7
ILLINOIS	13,744	14,650	14,916	15,499	16,122	16,073	16,095	16,786	2.7	4.3	2.9
INDIANA	7,284	7,253	7,113	7,101	7,345	7,694	7,919	8,207	1.4	3.6	1.7
MICHIGAN	12,209	12,581	12,272	13,005	12,744	12,132	12,544	12,998	.5	3.6	.9
OHIO	14,633	14,802	15,125	15,268	15,773	15,922	16,099	16,802	1.6	4.4	2.0
WISCONSIN	8,047	7,789	7,590	7,567	8,023	7,940	7,876	7,989	-.4	1.4	-.1
WEST NORTH CENTRAL	21,993	22,536	22,793	22,933	23,723	23,552	24,093	24,720	1.5	2.6	1.7
IOWA	3,982	4,006	4,268	4,468	4,541	4,385	4,682	4,938	2.7	5.5	3.1
KANSAS	3,895	4,178	4,400	4,272	4,356	4,234	4,216	4,494	1.3	6.6	2.1
MINNESOTA	4,973	4,814	4,814	4,993	5,097	5,209	5,202	5,267	.8	1.2	.8
MISSOURI	6,091	6,030	5,742	5,699	5,983	5,813	6,031	5,841	-.2	-3.2	-.6
NEBRASKA	1,730	2,112	2,073	2,111	2,138	2,326	2,284	2,397	4.7	4.9	4.8
NORTH DAKOTA	809	836	858	776	827	913	946	994	2.6	5.1	3.0
SOUTH DAKOTA	513	560	638	614	701	672	732	789	6.1	7.8	6.3
SOUTH ATLANTIC	41,981	44,006	45,528	47,568	49,519	51,214	52,065	52,738	3.7	1.3	3.3
DELAWARE	902	884	884	1,031	1,084	1,135	1,173	1,180	4.5	.6	3.9
DISTRICT OF COLUMBIA	7,600	8,050	8,714	9,059	8,830	9,641	8,649	8,245	2.2	-4.7	1.2
FLORIDA	7,397	7,198	7,974	8,808	9,623	10,333	10,916	11,319	6.7	3.7	6.3
GEORGIA	4,832	4,852	5,087	5,300	5,672	5,766	5,913	5,849	3.4	-1.1	2.8
MARYLAND	5,524	5,675	5,594	5,596	5,185	5,431	5,484	5,855	-.1	6.8	.8
NORTH CAROLINA	5,764	5,886	6,329	6,651	6,725	6,664	7,116	7,363	3.6	3.5	3.6
SOUTH CAROLINA	2,720	2,833	2,765	2,780	2,760	2,826	2,944	3,017	1.3	2.5	1.5
VIRGINIA	5,389	5,686	5,875	6,107	6,931	7,011	7,153	7,273	4.8	1.7	4.4
WEST VIRGINIA	1,853	1,942	2,306	2,236	2,709	2,407	2,717	2,637	6.6	-2.9	5.2
EAST SOUTH CENTRAL	12,207	12,795	13,018	13,121	13,163	12,655	12,867	13,183	.9	2.5	1.1
ALABAMA	2,809	3,181	3,356	3,485	3,350	3,276	3,296	3,366	2.7	2.1	2.6
KENTUCKY	2,386	2,475	2,454	2,565	2,571	2,709	2,827	2,865	2.9	1.3	2.6
MISSISSIPPI	1,824	1,858	1,970	1,895	1,893	1,841	1,953	2,063	1.1	5.6	1.8
TENNESSEE	5,188	5,281	5,238	5,176	5,349	4,829	4,791	4,889	-1.3	2.0	-.8
WEST SOUTH CENTRAL	24,555	26,434	26,813	27,175	28,026	28,205	30,249	32,796	3.5	8.4	4.2
ARKANSAS	948	1,044	1,056	1,065	1,060	2,164	1,224	1,189	4.4	-2.9	3.3
LOUISIANA	2,883	3,100	3,484	3,518	3,596	3,862	4,084	4,371	6.0	7.0	6.1
OKLAHOMA	3,344	3,726	3,757	3,715	3,855	3,475	3,721	4,066	1.8	9.3	2.8
TEXAS	17,380	18,564	18,516	18,877	19,515	19,704	21,220	23,170	3.4	9.2	4.2
MOUNTAIN	19,941	19,827	20,077	20,496	21,102	21,428	22,841	23,045	2.3	.9	2.1
ARIZONA	4,707	4,729	4,752	5,027	5,228	5,593	6,397	6,384	5.2	-.2	4.4
COLORADO	7,124	6,821	6,608	6,883	6,881	6,885	6,923	6,702	-.5	-3.2	-.9
IDAHO	975	1,192	1,191	951	968	913	937	1,004	-.7	7.2	.4
MONTANA	774	763	772	755	830	810	976	1,000	3.9	2.5	3.7
NEVADA	537	469	435	477	450	464	413	532	-4.3	28.8	-.1
NEW MEXICO	1,915	1,809	2,059	2,086	2,203	2,296	2,372	2,551	3.6	7.5	4.[illegible]
UTAH	3,214	3,369	3,582	3,666	3,882	3,737	4,021	4,037	3.3	.4	3.3
WYOMING	695	675	678	651	660	730	802	835	2.4	4.1	2.7
PACIFIC	45,805	45,708	45,785	48,572	49,578	50,132	50,008	51,077	1.5	2.1	1.6
ALASKA	208	228	251	270	272	320	355	424	9.3	19.4	10.7
CALIFORNIA	35,807	35,019	34,935	37,545	37,918	38,974	39,181	40,058	1.5	2.2	1.6
HAWAII	1,496	1,542	1,501	1,453	2,004	2,012	2,053	1,965	5.4	-4.3	4.0
OREGON	2,995	3,135	3,262	3,299	3,216	3,141	3,175	3,305	1.0	4.1	1.4
WASHINGTON	5,299	5,783	5,836	6,005	6,128	5,685	5,244	9,325	-.2	1.5	.1
OUTLYING AREAS	1,414	1,606	1,548	1,541	1,953	1,984	2,108	2,383	6.9	13.0	7.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-5. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980–83

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME					PART TIME 1				
	NUMBER				PERCENT CHANGE, 1982–83	NUMBER				PERCENT CHANGE, 1982–83
	1980	1981	1982	1983		1980	1981	1982	1983	
TOTAL, ALL AREAS:	230,535	234,194	236,939	243,646	2.8	103,134	105,774	109,857	114,630	4.3
TOTAL US CITIZENS	181,864	181,593	181,637	183,740	1.2	-	-	101,311	104,935	3.6
BLACK, NON-HISPANIC	5,595	5,402	5,992	5,998	.1	3,747	3,546	4,315	4,848	12.4
AMERICAN INDIAN/ALASKAN NATIVE	581	471	618	668	8.1	193	173	327	328	.3
ASIAN/PACIFIC ISLANDER	5,073	4,590	5,224	5,860	12.2	2,246	2,269	2,808	2,981	6.2
HISPANIC	4,535	4,117	5,024	5,817	15.8	1,910	2,183	2,981	3,464	16.2
WHITE, NON-HISPANIC	140,799	133,217	148,143	155,417	4.9	63,728	62,124	79,692	84,123	5.6
OTHER OR UNKNOWN	25,281	33,796	16,636	9,980	-40.0	-	-	11,188	9,191	-17.8
FOREIGN	48,671	52,601	55,302	59,906	8.3	-	-	8,546	9,695	13.4
TOTAL, ENGINEERING:	41,939	44,817	48,687	53,553	10.0	28,204	29,556	29,491	32,420	9.9
TOTAL US CITIZENS	24,436	25,616	27,875	31,144	11.7	-	-	26,253	28,348	8.0
BLACK, NON-HISPANIC	436	394	473	612	29.4	396	387	511	597	16.8
AMERICAN INDIAN/ALASKAN NATIVE	26	66	71	91	28.2	49	42	77	69	-10.4
ASIAN/PACIFIC ISLANDER	1,484	1,068	1,322	1,648	24.7	1,017	944	1,087	1,175	8.5
HISPANIC	562	479	570	749	31.4	428	390	424	585	38.0
WHITE, NON-HISPANIC	18,341	18,039	21,152	24,546	16.0	17,023	17,265	18,888	21,282	12.7
OTHER OR UNKNOWN	3,587	5,570	4,287	3,498	-18.4	-	-	5,266	4,636	-12.0
FOREIGN	17,503	19,201	20,812	22,409	7.7	-	-	3,238	4,072	25.8
TOTAL, SCIENCES:	188,596	189,377	188,252	190,093	1.0	74,930	76,218	80,366	82,210	2.3
TOTAL US CITIZENS	157,428	155,977	153,762	152,596	-.8	-	-	75,058	76,587	2.0
BLACK, NON-HISPANIC	5,159	5,008	5,519	5,386	-2.4	3,349	3,159	3,804	4,251	11.8
AMERICAN INDIAN/ALASKAN NATIVE	555	405	547	577	5.5	144	131	250	259	3.6
ASIAN/PACIFIC ISLANDER	3,589	3,522	3,902	4,212	7.9	1,229	1,325	1,721	1,802	4.7
HISPANIC	3,973	3,638	4,454	5,068	13.8	1,482	1,793	2,557	2,879	12.6
WHITE, NON-HISPANIC	122,458	115,178	126,991	130,871	3.1	46,705	44,859	60,804	62,841	3.4
OTHER OR UNKNOWN	21,694	28,226	12,349	6,482	-47.5	-	-	5,922	4,555	-23.1
FOREIGN	31,168	33,400	34,490	37,497	8.7	-	-	5,308	5,623	5.9
TOTAL, PHYSICAL SCIENCES:	22,254	22,600	23,330	24,476	4.9	3,139	3,180	3,169	3,225	1.8
TOTAL US CITIZENS	16,668	16,523	17,038	17,448	2.4	-	-	2,822	2,898	2.7
BLACK, NON-HISPANIC	262	274	339	330	-2.7	70	71	95	96	1.1
AMERICAN INDIAN/ALASKAN NATIVE	13	15	29	34	17.2	1	1	12	3	-75.0
ASIAN/PACIFIC ISLANDER	495	452	502	537	7.0	81	113	126	103	-18.3
HISPANIC	288	315	375	471	25.6	49	40	86	104	20.9
WHITE, NON-HISPANIC	13,638	13,260	14,415	15,099	4.7	1,924	1,904	2,319	2,479	6.9
OTHER OR UNKNOWN	1,972	2,207	1,378	977	-29.1	-	-	184	113	-38.6
FOREIGN	5,586	6,077	6,292	7,028	11.7	-	-	347	327	-5.8
TOTAL, ENVIRONMENTAL SCIENCES:	10,265	10,491	10,873	11,428	5.1	2,530	2,572	2,884	2,855	-1.0
TOTAL US CITIZENS	8,930	9,026	9,269	9,788	5.6	-	-	2,674	2,706	1.2
BLACK, NON-HISPANIC	54	59	59	76	28.8	18	20	16	22	37.5
AMERICAN INDIAN/ALASKAN NATIVE	36	9	15	23	53.3	0	5	3	1	-66.7
ASIAN/PACIFIC ISLANDER	135	100	130	145	11.5	18	15	48	63	31.3
HISPANIC	111	125	112	134	19.6	22	21	44	65	47.7
WHITE, NON-HISPANIC	7,170	6,849	7,999	8,795	10.0	1,787	1,661	2,333	2,500	4.9
OTHER OR UNKNOWN	1,424	1,884	954	615	-35.5	-	-	180	55	-69.4
FOREIGN	1,335	1,465	1,604	1,640	2.2	-	-	210	149	-29.0
TOTAL, MATHEMATICAL/COMPUTER SCIENCES:	15,268	16,145	18,082	19,581	8.3	9,741	11,000	12,252	13,884	13.3
TOTAL US CITIZENS	10,243	10,419	11,590	11,964	3.2	-	-	10,895	11,990	10.1
BLACK, NON-HISPANIC	144	189	262	243	-7.3	193	239	355	403	13.5
AMERICAN INDIAN/ALASKAN NATIVE	31	6	23	14	-39.1	15	3	24	19	-20.8
ASIAN/PACIFIC ISLANDER	339	430	557	727	30.5	348	395	492	554	12.6
HISPANIC	155	194	249	284	14.1	69	82	171	206	20.5
WHITE, NON-HISPANIC	7,365	7,760	9,077	9,644	6.2	5,580	5,814	8,661	9,370	8.2
OTHER OR UNKNOWN	2,209	1,840	1,422	1,052	-26.0	-	-	1,192	1,438	20.6
FOREIGN	5,025	5,726	6,492	7,617	17.3	-	-	1,357	1,894	39.6

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TABLE C-5. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-83

- CONTINUED

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME					PART TIME 1/				
	NUMBER				PERCENT CHANGE, 1982-83	NUMBER				PERCENT CHANGE, 1982-83
	1980	1981	1982	1983		1980	1981	1982	1983	
TOTAL, AGRICULTURAL SCIENCES:	9,591	9,630	9,500	9,397	-1.1	1,988	1,717	2,077	2,118	2.0
TOTAL US CITIZENS	7,432	7,342	7,219	7,023	-2.7	-	-	1,883	1,917	1.8
BLACK, NON-HISPANIC	84	84	104	99	-4.8	11	11	18	17	-5.6
AMERICAN INDIAN/ALASKAN NATIVE	13	8	11	19	72.7	0	3	11	7	-36.4
ASIAN/PACIFIC ISLANDER	123	95	112	103	-8.0	19	15	19	13	-31.6
HISPANIC	208	120	147	163	10.9	60	30	36	37	2.8
WHITE, NON-HISPANIC	6,136	6,134	6,363	6,428	1.0	1,305	1,276	1,662	1,728	4.0
OTHER OR UNKNOWN	863	901	482	211	-56.2	-	-	137	115	-16.1
FOREIGN	2,159	2,288	2,281	2,374	4.1	-	-	194	301	3.6
TOTAL, BIOLOGICAL SCIENCES:	35,817	35,454	35,226	35,263	.1	6,859	6,529	6,651	6,410	-3.6
TOTAL US CITIZENS	31,471	30,814	30,355	29,913	-1.5	-	-	6,186	5,960	-3.7
BLACK, NON-HISPANIC	551	515	632	628	-.6	156	157	196	183	-6.6
AMERICAN INDIAN/ALASKAN NATIVE	48	30	59	78	32.2	6	4	13	17	30.8
ASIAN/PACIFIC ISLANDER	885	771	877	984	12.2	135	112	162	167	3.1
HISPANIC	579	411	579	655	13.1	95	77	113	126	11.5
WHITE, NON-HISPANIC	25,952	24,431	26,521	26,765	.9	4,645	4,238	5,176	5,098	-1.5
OTHER OR UNKNOWN	3,456	4,656	1,687	803	-52.4	-	-	526	369	-29.8
FOREIGN	4,346	4,640	4,871	5,350	9.8	-	-	465	450	-3.2
TOTAL, HEALTH SCIENCES:	22,303	22,111	20,927	20,525	-1.9	14,102	15,467	16,322	17,582	7.7
TOTAL US CITIZENS	20,323	20,027	18,769	18,281	-2.6	-	-	15,731	17,073	8.5
BLACK, NON-HISPANIC	711	604	663	640	-3.5	598	512	647	848	31.1
AMERICAN INDIAN/ALASKAN NATIVE	97	80	100	94	-6.0	30	24	43	60	39.5
ASIAN/PACIFIC ISLANDER	537	455	570	521	-8.6	227	185	294	343	16.7
HISPANIC	570	324	510	817	60.2	213	200	284	416	46.5
WHITE, NON-HISPANIC	16,067	14,739	15,760	15,738	-.1	9,952	10,026	13,885	14,900	7.3
OTHER OR UNKNOWN	2,341	3,825	1,166	471	-59.6	-	-	578	506	-12.5
FOREIGN	1,980	2,084	2,158	2,244	4.0	-	-	591	509	-13.9
TOTAL, PSYCHOLOGY:	21,580	21,544	21,103	21,327	1.1	7,804	7,508	7,979	7,768	-2.6
TOTAL US CITIZENS	20,526	20,712	20,216	20,422	1.0	-	-	7,759	7,517	-3.1
BLACK, NON-HISPANIC	830	788	802	863	7.6	194	263	329	407	23.7
AMERICAN INDIAN/ALASKAN NATIVE	144	33	56	87	55.4	37	28	30	26	-13.3
ASIAN/PACIFIC ISLANDER	247	291	274	290	5.8	41	43	78	84	7.7
HISPANIC	846	871	936	897	-4.2	199	187	304	371	22.0
WHITE, NON-HISPANIC	14,764	13,062	15,574	17,327	11.3	4,233	3,991	6,361	6,172	-3.0
OTHER OR UNKNOWN	3,695	5,667	2,574	958	-62.8	-	-	657	457	-30.4
FOREIGN	1,054	832	887	905	2.0	-	-	220	251	14.1
TOTAL, SOCIAL SCIENCES:	51,518	51,402	49,211	48,096	-2.3	28,767	28,245	29,032	28,368	-2.3
TOTAL US CITIZENS	41,835	41,114	39,306	37,757	-3.9	-	-	27,108	26,526	-2.1
BLACK, NON-HISPANIC	2,523	2,495	2,658	2,507	-5.7	2,109	1,886	2,148	2,275	5.9
AMERICAN INDIAN/ALASKAN NATIVE	168	224	254	228	-10.2	55	63	114	126	10.5
ASIAN/PACIFIC ISLANDER	828	928	880	905	2.8	360	447	502	475	-5.4
HISPANIC	1,216	1,278	1,546	1,647	6.5	775	1,156	1,519	1,554	2.3
WHITE, NON-HISPANIC	31,366	28,943	31,282	31,075	-.7	17,279	15,949	20,357	20,594	1.2
OTHER OR UNKNOWN	5,734	7,246	2,686	1,395	-48.1	-	-	2,468	1,502	-39.1
FOREIGN	9,683	10,288	9,905	10,339	4.4	-	-	1,924	1,842	-4.3

1/ FOR PART TIME STUDENTS, DISTRIBUTION BY CITIZENSHIP HAS NOT REQUESTED PRIOR TO 1982.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-6. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	214,089	217,453	216,608	223,409	230,535	234,194	236,939	243,646	1.7	2.8	1.9
ENGINEERING	36,231	36,675	37,057	39,344	41,939	44,817	48,687	53,553	5.0	10.0	5.7
AEROSPACE	1,153	1,178	1,135	1,151	1,324	1,480	1,519	1,825	4.7	20.1	6.8
AGRICULTURAL	529	620	618	645	631	672	739	766	5.7	3.7	5.4
BIOMEDICAL	755	715	742	827	788	853	908	1,012	3.1	11.5	4.3
CHEMICAL	3,657	3,843	3,898	4,167	4,431	4,921	5,524	5,790	7.1	4.8	6.8
CIVIL	6,892	7,229	7,455	7,742	8,110	8,808	9,427	9,957	5.4	5.6	5.4
ELECTRICAL	8,063	8,336	8,334	8,851	9,693	10,156	11,277	12,843	5.8	13.9	6.9
ENGINEERING SCIENCE	1,135	1,111	1,171	1,053	1,131	1,204	1,252	1,339	1.6	6.9	2.4
INDUSTRIAL	3,475	3,212	3,140	3,626	3,576	3,432	3,590	3,917	.5	9.1	1.7
MECHANICAL	4,861	4,775	4,868	5,337	5,730	6,337	7,128	8,199	6.6	15.0	7.8
METALLURGICAL/MATERIALS	1,853	1,961	1,961	2,120	2,236	2,436	2,453	2,686	4.8	9.5	5.4
MINING	400	358	327	292	318	372	351	404	-2.2	15.1	-.1
NUCLEAR	1,222	1,154	1,127	1,075	1,043	1,032	1,042	1,052	-2.6	1.0	-2.1
PETROLEUM	323	301	328	336	361	390	470	607	6.5	29.1	9.4
ENGINEERING, N.E.C.	1,913	1,902	1,949	2,122	2,567	2,724	3,007	3,156	7.8	5.0	7.4
PHYSICAL SCIENCES	21,590	21,747	21,497	21,797	22,254	22,600	23,330	24,476	1.3	4.9	1.8
ASTRONOMY	629	603	590	614	593	565	590	585	-1.1	-.8	-1.0
CHEMISTRY	12,389	12,577	12,680	12,842	13,076	13,162	13,744	14,493	1.7	5.4	2.3
PHYSICS	8,500	8,490	8,165	8,289	8,519	8,814	8,943	9,347	.9	4.5	1.4
PHYSICAL SCIENCES, N.E.C.	72	77	62	52	66	59	53	51	-5.0	-3.8	-4.8
ENVIRONMENTAL SCIENCES	9,669	10,019	9,997	10,171	10,265	10,491	10,873	11,428	2.0	5.1	2.4
ATMOSPHERIC SCIENCES	814	803	753	739	746	739	771	778	-.9	.9	-.6
GEOSCIENCES	6,106	6,305	6,367	6,553	6,752	6,842	7,285	7,904	3.0	8.6	3.8
OCEANOGRAPHY	1,468	1,509	1,491	1,488	1,530	1,589	1,551	1,547	.9	-.3	.8
ENVIRONMENTAL SCIENCES, N.E.C.	1,280	1,402	1,386	1,391	1,237	1,321	1,266	1,195	-.2	-5.6	-1.0
MATHEMATICAL/COMPUTER SCIENCES	14,564	14,010	13,722	14,209	15,268	16,145	18,082	19,581	3.7	8.3	4.3
COMPUTER SCIENCE	4,283	4,196	4,426	5,073	5,900	6,465	7,908	9,258	10.8	17.1	11.6
MATHEMATICS AND APPLIED MATHEMATICS	8,795	8,343	7,902	7,726	7,859	8,139	8,608	8,766	-.4	1.8	*
STATISTICS	1,486	1,471	1,394	1,410	1,509	1,541	1,566	1,557	.9	-.6	.7
LIFE SCIENCES	61,903	64,303	65,215	66,471	67,711	67,295	65,653	65,185	1.0	-.7	.7
AGRICULTURAL SCIENCES	9,040	9,296	9,259	9,371	9,591	9,630	9,500	9,397	.8	-1.1	.6
BIOLOGICAL SCIENCES	35,624	36,228	35,974	35,837	35,817	35,454	35,226	35,263	-.2	.1	-.1
ANATOMY	1,060	1,062	1,034	1,041	990	963	937	937	-2.0	.0	-1.7
BIOCHEMISTRY	3,507	3,608	3,700	3,649	3,717	3,749	3,832	4,015	1.5	4.8	2.0
BIOLOGY	9,017	8,878	8,363	8,230	8,052	7,725	7,624	7,686	-2.8	.8	-2.3
BIOMETRY/EPIDEMIOLOGY	751	854	978	967	1,045	999	919	877	3.4	-4.6	2.2
BIOPHYSICS	573	553	513	498	476	457	423	443	-4.9	4.7	-3.6
BOTANY	3,274	3,410	3,322	3,220	3,154	3,024	3,143	3,013	-.7	-4.1	-1.2
CELL BIOLOGY	718	777	810	859	932	989	1,110	1,129	7.5	1.7	6.7
ECOLOGY	789	927	970	819	947	931	905	835	2.3	-7.7	.8
ENTOMOLOGY/PARASITOLOGY	1,416	1,389	1,480	1,463	1,525	1,452	1,340	1,305	-.9	-2.6	-1.2
GENETICS	785	905	870	832	837	826	877	919	1.9	4.8	2.3
MICROBIOLOGY	3,574	3,620	3,482	3,486	3,559	3,462	3,499	3,644	-.4	4.1	.3
NUTRITION	2,488	2,746	2,831	2,945	2,915	3,094	3,026	2,895	3.3	-4.3	2.2
PATHOLOGY	938	937	980	1,030	1,027	1,050	1,014	1,068	1.3	5.3	1.9
PHARMACOLOGY	1,589	1,666	1,754	1,851	1,884	1,913	1,939	1,956	3.4	.9	3.0
PHYSIOLOGY	1,969	1,910	1,878	1,892	1,853	1,924	1,805	1,792	-1.4	-.7	-1.3
ZOOLOGY	2,832	2,589	2,532	2,405	2,254	2,227	2,118	2,058	-4.7	-2.8	-4.5
BIOSCIENCES, N.E.C.	344	357	477	650	669	715	691	13.0	-3.4	10.9	
HEALTH SCIENCES	17,239	18,779	19,982	21,263	22,303	22,111	20,927	20,525	3.3	-1.9	2.5
ANESTHESIOLOGY	5	3	7	18	13	16	19	27	24.9	42.1	27.2
CANCER/ONCOLOGY	67	75	65	61	54	53	69	73	.5	5.8	1.2
CARDIOLOGY	0	3	3	3	17	3	3	3	**	.0	**
DENTISTRY	758	781	780	924	888	761	727	728	-.7	.1	-.6
ENDOCRINOLOGY	33	31	31	43	48	44	50	64	7.2	28.0	9.9
GASTROENTEROLOGY	8	8	5	0	0	3	1	0	-29.3	-100.0	-100.0
HEMATOLOGY	3	7	9	14	8	9	6	9	12.2	50.0	17.0
NEUROLOGY	211	225	239	225	212	175	188	244	-1.9	29.8	2.1
NURSING	3,831	5,256	5,597	6,141	6,240	6,735	6,182	5,717	8.3	-7.5	5.9
OBSTETRICS/GYNECOLOGY	52	25	23	33	5	10	15	15	-18.7	.0	-16.3
OPHTHALMOLOGY	8	9	2	5	15	19	8	7	.0	-12.5	-1.9
OTORHINOLARYNGOLOGY	59	44	42	13	14	11	11	5	-24.4	-54.5	-29.7
PEDIATRICS	143	112	94	119	127	145	144	138	.1	-4.2	-.5
PHARMACEUTICAL SCIENCES	1,422	1,577	1,559	1,604	1,640	1,672	1,690	1,728	2.9	2.2	2.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,273	3,044	3,834	4,291	4,513	4,443	4,029	3,921	3.5	-2.7	2.6
PSYCHIATRY	114	127	117	120	61	57	68	80	-8.3	17.6	-4.9
PULMONARY DISEASE	0	3	10	1	15	9	10	2	**	-80.0	**
RADIOLOGY	270	270	213	220	233	237	206	169	-4.3	-18.8	-6.5
SPEECH PATHOLOGY/AUDIOLOGY	4,642	4,580	4,609	4,391	4,706	4,431	4,479	4,439	-.7	-.9	-.7
SURGERY	128	104	109	66	85	83	87	73	-6.2	-16.1	-7.7
VETERINARY SCIENCES	321	379	371	423	382	350	356	337	1.7	-5.3	.7
CLINICAL MEDICINE, N.E.C.	182	218	171	226	272	226	290	293	8.1	1.0	7.0
HEALTH RELATED, N.E.C.	1,689	1,898	2,092	2,322	2,755	2,617	2,287	2,453	5.2	7.3	5.5
PSYCHOLOGY	21,482	21,266	20,711	20,737	21,580	21,544	21,103	21,327	-.3	1.1	-.1
SOCIAL SCIENCES	48,651	49,433	48,409	50,680	51,518	51,402	49,211	48,096	.2	-2.3	-.2
AGRICULTURAL ECONOMICS	1,936	1,956	1,989	1,942	2,028	2,015	1,956	1,994	.2	1.9	.4
ANTHROPOLOGY	4,892	4,924	4,528	4,464	4,476	4,244	4,027	3,924	-3.2	-2.6	-3.1
ECONOMICS (EXCEPT AGRICULTURAL)	7,786	8,033	8,139	8,123	8,947	9,089	9,087	8,925	2.6	-1.8	2.0
GEOGRAPHY	2,169	2,032	2,024	1,876	2,049	2,046	1,977	2,015	-1.5	1.9	-1.0
HISTORY AND PHILOSOPHY OF SCIENCE	270	257	241	234	241	217	223	229	-3.1	2.7	-2.1
LINGUISTICS	2,148	1,899	1,876	2,249	2,234	2,251	2,145	2,316	*	8.0	1.1
POLITICAL SCIENCE	11,256	11,483	11,211	12,307	11,932	12,545	12,111	11,769	1.2	-2.8	.6
SOCIOLOGY	5,988	5,724	4,914	5,142	5,291	5,095	4,643	4,582	-4.2	-1.3	-3.8
SOCIOLOGY/ANTHROPOLOGY	675	734	599	623	589	524	612	596	-1.6	-2.6	-1.8
SOCIAL SCIENCES, N.E.C.	11,531	12,391	12,888	13,720	13,731	13,376	12,430	11,746	1.3	-5.5	.3

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-7. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	156,251	157,768	155,983	160,065	165,047	167,067	169,837	175,349	1.4	3.2	1.7
ENGINEERING	25,015	25,357	25,249	26,839	28,982	31,013	33,922	37,124	5.2	9.4	5.8
AEROSPACE	819	813	772	780	921	1,053	1,091	1,346	4.9	23.4	7.4
AGRICULTURAL	497	584	578	608	593	628	686	713	5.5	3.9	5.3
BIOMEDICAL	411	392	394	435	435	493	529	563	4.3	6.4	4.6
CHEMICAL	2,484	2,623	2,630	2,841	3,070	3,367	3,800	3,925	7.3	3.3	6.8
CIVIL	5,246	5,550	5,645	5,871	6,153	6,342	6,892	7,406	4.7	7.5	5.0
ELECTRICAL	5,473	5,628	5,449	5,685	6,386	6,719	7,380	8,428	5.1	14.2	6.4
ENGINEERING SCIENCE	655	614	630	522	594	680	721	775	1.6	7.5	2.4
INDUSTRIAL	2,170	2,072	1,997	2,505	2,564	2,608	2,753	2,634	4.0	-4.3	2.8
MECHANICAL	3,394	3,224	3,327	3,590	3,871	4,397	5,012	5,798	6.7	15.7	8.0
METALLURGICAL/MATERIALS	1,159	1,214	1,232	1,342	1,361	1,502	1,523	1,656	4.7	8.7	5.2
MINING	312	277	245	214	240	293	287	343	-1.4	19.5	1.4
NUCLEAR	955	900	866	827	816	809	815	822	-2.6	.9	-2.1
PETROLEUM	194	183	200	187	215	231	279	422	6.2	51.3	11.7
ENGINEERING, N.E.C.	1,246	1,283	1,284	1,432	1,763	1,891	2,154	2,279	9.6	6.5	9.1
PHYSICAL SCIENCES	15,300	15,399	15,217	15,460	15,793	16,050	16,722	17,578	1.5	5.1	2.0
ASTRONOMY	407	385	383	399	390	362	382	388	-1.1	1.6	-.7
CHEMISTRY	9,070	9,192	9,057	9,379	9,618	9,680	10,143	10,695	1.9	5.4	2.4
PHYSICS	5,751	5,745	5,515	5,630	5,731	5,961	6,144	6,444	1.1	4.9	1.6
PHYSICAL SCIENCES, N.E.C.	72	77	62	52	54	47	53	51	-5.0	-3.8	-4.8
ENVIRONMENTAL SCIENCES	7,955	8,279	8,192	8,488	8,504	8,671	8,949	9,435	2.0	5.4	2.5
ATMOSPHERIC SCIENCES	759	751	708	693	701	658	680	736	-1.8	8.2	-.4
GEOSCIENCES	4,757	4,959	5,014	5,244	5,424	5,495	5,860	6,379	3.6	8.9	4.3
OCEANOGRAPHY	1,271	1,304	1,253	1,310	1,302	1,367	1,295	1,283	.3	-.9	.1
ENVIRONMENTAL SCIENCES, N.E.C.	1,173	1,265	1,217	1,241	1,077	1,151	1,114	1,037	-.9	-6.9	-1.7
MATHEMATICAL/COMPUTER SCIENCES	11,041	10,582	10,438	10,716	11,360	11,815	13,191	14,374	3.0	9.0	3.8
COMPUTER SCIENCE	3,557	3,410	3,604	4,013	4,607	4,855	6,301	6,837	8.5	17.9	9.8
MATHEMATICS AND APPLIED MATHEMATICS	6,272	5,949	5,663	5,517	5,498	5,661	6,046	6,203	-.6	2.6	-.2
STATISTICS	1,212	1,223	1,171	1,186	1,255	1,299	1,344	1,334	1.7	-.7	1.4
LIFE SCIENCES	49,336	50,967	51,194	51,745	52,647	52,102	50,959	50,800	.5	-.3	.4
AGRICULTURAL SCIENCES	8,797	9,047	8,998	9,070	9,307	9,351	9,247	9,127	.8	-1.3	.5
BIOLOGICAL SCIENCES	26,903	27,357	26,962	26,765	26,815	26,558	26,052	26,094	-.5	.2	-.4
ANATOMY	759	751	713	715	642	628	588	618	-4.1	5.1	-2.9
BIOCHEMISTRY	2,456	2,518	2,506	2,453	2,505	2,515	2,559	2,692	.7	5.2	1.3
BIOLOGY	5,935	5,880	5,502	5,415	5,383	5,210	5,018	5,122	-2.8	2.1	-2.1
BIOMETRY/EPIDEMIOLOGY	383	491	561	534	612	580	485	466	4.0	-3.9	2.8
BIOPHYSICS	343	326	309	294	279	267	233	239	-6.2	2.6	-5.0
BOTANY	3,063	3,191	3,086	2,977	2,899	2,777	2,891	2,778	-1.0	-3.9	-1.4
CELL BIOLOGY	453	489	510	544	564	579	619	616	5.3	-.5	4.5
ECOLOGY	723	869	910	767	897	876	857	778	2.9	-9.2	1.1
ENTOMOLOGY/PARASITOLOGY	1,353	1,332	1,417	1,399	1,470	1,394	1,291	1,257	-.8	-2.6	-1.0
GENETICS	610	699	624	649	630	615	650	685	1.1	5.4	1.7
MICROBIOLOGY	2,792	2,795	2,641	2,646	2,737	2,626	2,593	2,715	-1.2	4.7	-.4
NUTRITION	1,941	2,128	2,176	2,281	2,254	2,434	2,395	2,259	3.3	-4.1	2.2
PATHOLOGY	596	617	665	700	693	711	683	730	2.3	6.9	2.9
PHARMACOLOGY	1,086	1,107	1,158	1,274	1,260	1,298	1,321	1,308	3.3	-1.0	2.7
PHYSIOLOGY	1,424	1,382	1,317	1,275	1,283	1,323	1,223	1,237	-2.5	1.1	-2.0
ZOOLOGY	2,655	2,429	2,345	2,212	2,076	2,083	1,990	1,929	-4.7	-3.1	-4.5
BIOSCIENCES, N.E.C.	331	353	468	630	631	642	696	665	13.2	-4.5	10.5
HEALTH SCIENCES	13,636	14,563	15,234	15,910	16,525	16,193	15,660	15,579	2.3	-.5	1.9
ANESTHESIOLOGY	5	2	3	14	13	15	18	12	23.8	-33.3	13.3
CANCER/ONCOLOGY	42	49	49	45	44	44	55	55	4.6	.0	3.9
CARDIOLOGY	0	2	2	1	0	0	0	0	**	**	**
DENTISTRY	518	570	547	579	592	550	534	500	-.5	-6.4	-.5
ENDOCRINOLOGY	32	31	30	43	48	46	50	60	7.7	20.0	9.4
GASTROENTEROLOGY	8	8	5	0	0	3	1	0	-29.1	-100.0	-100.0
HEMATOLOGY	3	1	3	10	7	6	6	6	12.2	.0	10.4
NEUROLOGY	129	154	174	168	161	129	137	146	1.0	6.6	1.8
NURSING	3,092	3,802	4,132	4,410	4,504	4,682	4,625	4,397	6.9	-4.9	5.2
OBSTETRICS/GYNECOLOGY	37	17	16	20	1	0	7	12	-24.2	71.4	-14.9
OPHTHALMOLOGY	3	7	1	3	10	10	5	5	8.9	.0	7.6
OTORHINOLARYNGOLOGY	43	19	27	11	8	7	8	4	-24.4	-50.0	-28.8
PEDIATRICS	130	93	76	66	81	91	97	83	-4.8	-14.4	-6.2
PHARMACEUTICAL SCIENCES	1,284	1,383	1,364	1,374	1,420	1,457	1,448	1,486	2.0	2.6	2.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,475	2,283	2,632	3,082	3,193	3,152	2,683	2,677	1.4	-.2	1.1
PSYCHIATRY	26	59	63	78	58	57	59	63	14.6	6.8	13.5
PULMONARY DISEASE	0	3	9	1	7	7	10	2	**	-80.0	**
RADIOLOGY	167	175	150	162	168	146	134	129	-3.6	-3.7	-3.6
SPEECH PATHOLOGY/AUDIOLOGY	4,019	4,016	4,035	3,717	3,936	3,683	3,758	3,738	-1.1	-.5	-1.0
SURGERY	94	75	90	48	59	43	65	47	-6.0	-27.7	-9.4
VETERINARY SCIENCES	469	320	313	364	331	302	316	298	2.7	-5.7	1.5
CLINICAL MEDICINE, N.E.C.	156	201	156	200	202	188	187	180	3.1	-3.7	2.1
HEALTH RELATED, N.E.C.	1,104	1,293	1,357	1,514	1,682	1,576	1,457	1,679	4.7	15.2	4.2
PSYCHOLOGY	13,992	13,967	12,957	12,824	13,089	13,043	12,984	13,172	-1.2	1.4	-.9
SOCIAL SCIENCES	33,612	33,617	32,736	33,993	34,672	34,373	33,110	32,866	-.3	-.7	-.3
AGRICULTURAL ECONOMICS	1,856	1,877	1,904	1,842	1,901	1,915	1,864	1,905	.1	2.2	.4
ANTHROPOLOGY	3,585	3,586	3,278	3,312	3,232	3,025	2,806	2,722	-4.0	-3.0	-3.9
ECONOMICS (EXCEPT AGRICULTURAL)	5,065	5,111	5,102	5,072	5,571	5,729	5,918	5,826	2.6	-1.6	2.0
GEOGRAPHY	1,919	1,805	1,782	1,680	1,806	1,803	1,779	1,822	-1.3	2.4	-.7
HISTORY AND PHILOSOPHY OF SCIENCE	135	135	132	131	139	122	122	121	-1.7	-.8	-1.6
LINGUISTICS	1,325	1,276	1,255	1,369	1,404	1,425	1,494	1,578	2.0	5.6	2.5
POLITICAL SCIENCE	6,474	6,385	6,074	6,630	6,598	6,910	6,643	6,598	-.4	-.8	-.5
SOCIOLOGY	4,147	4,019	3,483	3,645	3,722	3,483	3,228	3,254	-4.1	.8	-3.4
SOCIOLOGY/ANTHROPOLOGY	448	503	435	440	433	368	410	383	-1.5	-6.6	-2.2
SOCIAL SCIENCES, N.E.C.	8,658	8,920	9,291	9,872	9,866	9,593	8,846	8,557	.4	-3.3	-.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-8. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	57,838	59,685	60,625	63,344	65,488	67,127	67,102	68,297	2.5	1.8	2.4
ENGINEERING	11,216	11,318	11,808	12,505	12,957	13,804	14,765	16,429	4.7	11.3	5.6
AEROSPACE	334	345	363	371	403	427	428	479	4.2	11.9	5.3
AGRICULTURAL	32	36	40	37	38	44	53	53	8.8	.0	7.5
BIOMEDICAL	344	323	348	392	353	360	379	449	1.6	18.5	3.9
CHEMICAL	1,173	1,220	1,268	1,326	1,361	1,554	1,724	1,865	6.6	8.2	6.8
CIVIL	1,646	1,679	1,814	1,871	1,957	2,466	2,535	2,551	7.5	.6	6.5
ELECTRICAL	2,590	2,708	2,885	3,166	3,307	3,437	3,897	4,415	7.0	13.3	7.9
ENGINEERING SCIENCE	480	497	541	531	537	524	531	564	1.7	6.2	2.3
INDUSTRIAL	1,305	1,140	1,143	1,121	1,012	871	837	1,283	-7.1	53.3	-.2
MECHANICAL	1,447	1,551	1,541	1,747	1,859	1,940	2,116	2,401	6.3	13.5	7.5
METALLURGICAL/MATERIALS	694	727	729	778	875	934	930	1,030	5.0	10.8	5.8
MINING	88	81	82	78	78	79	64	61	-5.2	-4.7	-5.1
NUCLEAR	267	254	261	248	227	223	227	230	-2.7	1.3	-2.1
PETROLEUM	129	118	128	149	146	159	191	185	6.8	-3.1	5.3
ENGINEERING, N.E.C.	667	619	645	690	804	833	853	863	4.2	1.2	3.7
PHYSICAL SCIENCES	6,290	6,348	6,280	6,337	6,461	6,550	6,608	6,898	.8	4.4	1.3
ASTRONOMY	222	218	207	215	203	203	208	197	-1.1	-5.3	-1.7
CHEMISTRY	3,319	3,385	3,423	3,463	3,458	3,482	3,601	3,798	1.4	5.5	1.9
PHYSICS	2,749	2,745	2,650	2,659	2,788	2,853	2,799	2,903	.3	3.7	.8
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	12	12	0	0	**	**	**
ENVIRONMENTAL SCIENCES	1,713	1,740	1,805	1,683	1,761	1,820	1,924	1,993	2.0	3.6	2.2
ATMOSPHERIC SCIENCES	55	52	45	46	45	81	91	42	8.8	-53.8	-3.8
GEOSCIENCES	1,354	1,346	1,353	1,309	1,328	1,347	1,429	1,529	.9	7.3	1.8
OCEANOGRAPHY	197	205	238	178	229	222	256	264	4.5	3.1	4.3
ENVIRONMENTAL SCIENCES, N.E.C.	107	137	169	150	160	170	152	158	6.0	3.9	5.7
MATHEMATICAL/COMPUTER SCIENCES	3,523	3,428	3,284	3,493	3,908	4,330	4,891	5,207	5.6	6.5	5.7
COMPUTER SCIENCE	726	786	822	1,060	1,293	1,610	2,107	2,421	19.4	14.9	18.8
MATHEMATICS AND APPLIED MATHEMATICS	2,523	2,394	2,239	2,209	2,361	2,478	2,562	2,563	.3	*	.2
STATISTICS	274	248	223	224	254	242	222	223	-3.4	.5	-2.9
LIFE SCIENCES	12,567	13,336	14,021	14,726	15,064	15,093	14,694	14,385	2.6	-2.1	1.9
AGRICULTURAL SCIENCES	243	249	261	301	284	279	253	270	.7	6.7	1.5
BIOLOGICAL SCIENCES	8,721	8,871	9,012	9,072	9,007	8,826	9,174	9,169	.8	-.1	.7
ANATOMY	301	311	321	326	314	335	349	319	2.5	-8.6	.8
BIOCHEMISTRY	1,051	1,090	1,194	1,196	1,224	1,234	1,273	1,323	3.2	3.9	3.3
BIOLOGY	3,082	2,998	2,861	2,815	2,669	2,515	2,606	2,564	-2.8	-1.6	-2.6
BIOMETRY/EPIDEMIOLOGY	368	403	417	433	433	419	434	411	2.8	-5.3	1.6
BIOPHYSICS	230	227	204	204	197	190	190	204	-3.1	7.4	-1.7
BOTANY	211	219	236	243	255	247	252	235	3.0	-6.7	1.6
CELL BIOLOGY	265	288	300	325	368	410	491	513	10.8	4.5	9.9
ECOLOGY	66	58	60	62	50	55	48	57	-5.2	18.8	-2.1
ENTOMOLOGY/PARASITOLOGY	63	57	69	64	55	58	49	48	-4.1	-2.0	-3.8
GENETICS	175	206	186	183	207	211	227	234	4.4	3.1	4.2
MICROBIOLOGY	782	825	841	840	822	836	906	929	2.5	2.5	2.5
NUTRITION	547	618	655	664	661	660	671	636	3.5	-5.2	2.2
PATHOLOGY	342	320	315	330	334	339	331	338	-.5	2.1	-.2
PHARMACOLOGY	503	499	596	577	624	615	618	648	3.5	4.9	3.7
PHYSIOLOGY	545	518	561	617	570	601	582	555	1.1	-4.6	.3
ZOOLOGY	177	140	187	193	178	144	128	129	-5.3	.8	-4.4
BIOSCIENCES, N.E.C.	13	7	9	20	19	27	19	26	6.5	36.8	10.4
HEALTH SCIENCES	3,603	4,216	4,748	5,353	5,778	5,918	5,267	4,946	6.5	-6.1	4.6
ANESTHESIOLOGY	0	1	4	4	0	1	1	15	**	1400.0	**
CANCER/ONCOLOGY	25	26	16	16	10	9	14	18	-9.2	28.6	-4.6
CARDIOLOGY	0	1	1	2	17	3	3	3	**	.0	**
DENTISTRY	240	211	233	345	296	211	193	228	-3.6	18.1	-.7
ENDOCRINOLOGY	1	0	1	0	0	0	0	4	-100.0	**	21.9
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	6	6	4	1	3	0	3	**	**	**
NEUROLOGY	82	71	65	57	51	46	51	98	-7.6	92.2	2.6
NURSING	739	1,454	1,465	1,731	1,736	2,053	1,557	1,320	13.2	-15.2	8.6
OBSTETRICS/GYNECOLOGY	15	8	7	13	4	10	8	3	-9.9	-62.5	-20.5
OPHTHALMOLOGY	5	2	1	2	5	9	3	2	-8.2	-33.3	-12.3
OTORHINOLARYNGOLOGY	16	25	15	2	6	4	3	1	-24.3	-66.7	-32.7
PEDIATRICS	13	19	18	53	46	54	47	55	23.9	17.0	22.9
PHARMACEUTICAL SCIENCES	138	194	195	230	220	215	242	242	9.8	.0	8.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	798	761	1,202	1,209	1,320	1,291	1,346	1,244	9.1	-7.6	6.5
PSYCHIATRY	88	68	54	42	3	0	9	17	-31.6	88.9	-20.9
PULMONARY DISEASE	0	0	1	0	8	2	0	0	**	**	**
RADIOLOGY	103	95	63	58	65	92	74	40	-5.4	-45.9	-12.6
SPEECH PATHOLOGY/AUDIOLOGY	643	564	574	674	770	748	721	701	1.9	-2.8	1.2
SURGERY	34	29	19	18	26	40	22	26	-7.0	18.2	-3.8
VETERINARY SCIENCES	52	59	58	59	51	48	40	39	-4.3	-2.5	-4.0
CLINICAL MEDICINE, N.E.C.	24	17	15	26	70	38	103	113	25.8	9.7	23.4
HEALTH RELATED, N.E.C.	585	605	735	808	1,073	1,041	830	774	6.0	-6.7	4.1
PSYCHOLOGY	7,490	7,699	7,754	7,913	8,491	8,501	8,119	8,155	1.4	.4	1.2
SOCIAL SCIENCES	15,039	15,816	15,673	16,687	16,846	17,029	16,101	15,230	1.1	-5.4	.2
AGRICULTURAL ECONOMICS	80	79	85	100	127	100	92	89	2.4	-3.3	1.5
ANTHROPOLOGY	1,307	1,338	1,250	1,152	1,244	1,219	1,221	1,202	-1.1	-1.6	-1.2
ECONOMICS (EXCEPT AGRICULTURAL)	2,721	2,922	3,037	3,051	3,376	3,360	3,169	3,049	2.6	-2.2	1.9
GEOGRAPHY	250	227	242	196	243	243	198	193	-3.8	-2.5	-3.6
HISTORY AND PHILOSOPHY OF SCIENCE	135	122	109	103	102	95	101	108	-4.7	6.9	-3.1
LINGUISTICS	823	839	621	880	830	826	651	738	-3.8	13.4	-1.5
POLITICAL SCIENCE	4,782	5,096	5,137	5,677	5,334	5,635	5,468	5,071	2.3	-7.3	.8
SOCIOLOGY	1,841	1,705	1,431	1,477	1,569	1,612	1,415	1,328	-4.3	-6.1	-4.6
SOCIOLOGY/ANTHROPOLOGY	227	231	164	183	156	156	202	213	-1.7	5.4	-.9
SOCIAL SCIENCES, N.E.C.	2,873	3,471	3,597	3,868	3,865	3,783	3,584	3,189	3.8	-11.0	1.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-[illegible]. — FIRST-YEAR FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	78,121	80,222	74,352	73,033	77,347	76,366	76,661	78,341	-.3	2.2	*
ENGINEERING	15,686	15,641	14,414	14,544	15,728	16,325	17,745	18,932	2.1	6.7	2.7
AEROSPACE	412	413	408	415	524	563	531	601	4.3	13.6	5.6
AGRICULTURAL	228	257	216	200	216	226	248	266	1.4	7.3	2.2
BIOMEDICAL	288	268	266	250	232	263	342	359	2.9	5.0	3.2
CHEMICAL	1,517	1,622	1,441	1,429	1,474	1,649	1,830	1,781	3.2	-2.7	2.3
CIVIL	3,409	3,568	3,183	3,080	3,328	3,485	3,601	3,858	.9	7.1	1.8
ELECTRICAL	3,427	3,525	3,299	3,562	3,779	3,933	4,391	4,522	4.2	3.0	4.0
ENGINEERING SCIENCE	424	371	396	275	314	325	364	391	-2.5	7.4	-1.2
INDUSTRIAL	1,668	1,579	1,376	1,309	1,351	1,158	1,332	1,472	-3.7	10.5	-1.8
MECHANICAL	2,128	2,068	1,924	2,068	2,291	2,431	2,653	3,080	3.7	16.1	5.4
METALLURGICAL/MATERIALS	556	584	579	658	710	615	644	748	2.5	16.1	4.3
MINING	186	129	94	91	113	120	107	145	-8.8	35.5	-3.5
NUCLEAR	411	382	359	276	328	326	331	335	-3.5	1.2	-2.9
PETROLEUM	171	114	110	115	114	113	171	200	.0	17.0	2.3
ENGINEERING, N.E.C.	861	781	763	809	944	1,118	1,200	1,172	5.7	-2.3	4.[illegible]
PHYSICAL SCIENCES	6,011	6,151	5,685	5,449	5,733	5,815	5,902	6,407	-.3	8.6	.9
ASTRONOMY	132	148	126	137	148	127	146	123	1.7	-15.8	-1.0
CHEMISTRY	3,681	3,740	3,512	3,272	3,391	3,392	3,528	3,771	-.7	6.9	.3
PHYSICS	2,177	2,241	2,024	2,025	2,179	2,270	2,213	2,497	.3	12.8	2.0
PHYSICAL SCIENCES, N.E.C.	21	22	23	15	15	26	15	16	-5.5	6.7	-3.8
ENVIRONMENTAL SCIENCES	3,411	3,523	3,270	3,168	3,351	3,219	3,431	3,517	.1	2.5	.4
ATMOSPHERIC SCIENCES	267	291	253	230	214	239	218	205	-3.3	-6.0	-4.7
GEOSCIENCES	2,134	2,180	2,012	2,054	2,177	2,184	2,383	2,568	1.9	7.8	2.7
OCEANOGRAPHY	397	395	401	397	398	375	378	390	-.8	3.2	-.2
ENVIRONMENTAL SCIENCES, N.E.C.	613	657	604	487	562	421	452	354	-5.0	-21.7	-7.5
MATHEMATICAL/COMPUTER SCIENCES	5,202	5,273	4,840	4,813	5,519	5,723	6,302	6,703	3.2	6.4	3.7
COMPUTER SCIENCE	1,632	1,769	1,731	1,941	2,280	2,508	2,897	3,392	10.0	17.1	11.0
MATHEMATICS AND APPLIED MATHEMATICS	3,081	3,036	2,693	2,425	2,756	2,796	2,941	2,868	-.8	-2.5	-1.0
STATISTICS	489	468	416	447	483	419	464	443	-.9	-4.5	-1.4
LIFE SCIENCES	23,547	24,290	22,782	22,009	22,972	21,725	20,989	20,599	-1.9	-1.9	-1.9
AGRICULTURAL SCIENCES	3,556	3,528	3,047	2,865	2,956	2,821	2,771	2,675	-4.1	-3.5	-4.0
BIOLOGICAL SCIENCES	11,165	11,004	10,092	9,447	9,512	9,141	8,957	9,160	-3.6	2.3	-2.8
ANATOMY	304	283	238	223	224	226	219	219	-5.3	.0	-4.6
BIOCHEMISTRY	920	929	861	819	816	911	926	1,003	.1	8.3	1.2
BIOLOGY	3,154	3,034	2,526	2,428	2,312	2,049	2,059	2,067	-6.9	.4	-5.9
BIOMETRY/EPIDEMIOLOGY	301	324	377	376	376	332	270	253	-1.8	-6.3	-2.8
BIOPHYSICS	132	120	104	78	84	87	103	[illegible]	-4.1	-3.9	-4.0
BOTANY	1,086	1,028	896	782	860	753	786	740	-5.2	-5.9	-5.3
CELL BIOLOGY	199	209	195	181	171	197	223	252	1.9	13.0	3.4
ECOLOGY	189	208	241	202	229	203	187	185	-.2	-1.1	-.3
ENTOMOLOGY/PARASITOLOGY	435	404	385	365	376	343	283	260	-6.2	-8.1	-6.5
GENETICS	223	257	216	178	206	202	218	231	-.4	6.0	.5
MICROBIOLOGY	1,064	1,057	996	877	932	884	885	931	-3.0	5.2	-1.9
NUTRITION	967	1,127	1,071	1,041	980	921	930	944	-.6	1.3	-.4
PATHOLOGY	298	268	279	278	276	274	247	278	-3.1	12.6	-1.0
PHARMACOLOGY	452	430	421	428	449	463	432	475	-.8	10.0	.7
PHYSIOLOGY	542	535	525	493	471	589	519	570	-.7	9.8	.7
ZOOLOGY	809	686	728	538	572	524	474	517	-8.5	9.1	-6.2
BIOSCIENCES, N.E.C.	109	105	133	160	178	183	196	138	10.3	-29.6	3.4
HEALTH SCIENCES	8,826	9,758	9,643	9,697	10,504	9,763	9,261	8,764	-.8	-5.4	-.1
ANESTHESIOLOGY	1	3	4	6	5	5	5	20	30.8	300.0	53.4
CANCER/ONCOLOGY	23	17	17	7	8	3	16	18	-5.9	12.5	-3.4
CARDIOLOGY	0	1	0	1	5	0	0	0	**	**	**
DENTISTRY	340	335	344	364	378	308	277	276	-3.4	-.4	-2.9
ENDOCRINOLOGY	13	9	8	9	17	8	10	12	-4.3	20.0	-1.1
GASTROENTEROLOGY	4	4	0	0	0	0	0	0	-100.0	**	-100.0
HEMATOLOGY	1	2	3	7	4	2	3	3	20.1	.0	17.0
NEUROLOGY	35	49	50	40	37	32	39	57	1.8	46.2	7.2
NURSING	2,362	3,154	3,012	3,299	3,443	3,290	2,597	2,599	3.5	-10.3	1.4
OBSTETRICS/GYNECOLOGY	22	11	8	8	2	5	7	2	-17.4	-71.4	-29.0
OPHTHALMOLOGY	2	1	1	2	2	5	2	2	.0	.0	.0
OTORHINOLARYNGOLOGY	20	16	13	1	1	3	8	4	-14.2	-50.0	-20.5
PEDIATRICS	100	67	55	68	70	32	58	67	-8.7	15.5	-5.6
PHARMACEUTICAL SCIENCES	462	550	480	465	485	453	448	462	-.8	3.1	-.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,916	1,774	2,131	2,265	2,448	2,258	2,198	1,954	2.3	-11.1	.3
PSYCHIATRY	40	30	26	22	18	5	12	23	-18.2	91.7	-7.6
PULMONARY DISEASE	0	2	4	0	4	3	6	1	**	-83.3	**
RADIOLOGY	83	79	49	55	64	52	65	57	-4.0	-12.3	-5.2
SPEECH PATHOLOGY/AUDIOLOGY	2,323	2,355	2,091	1,847	2,047	1,972	1,950	1,890	-2.9	-3.1	-2.9
SURGERY	43	28	20	17	16	22	32	23	-4.8	-28.1	-8.6
VETERINARY SCIENCES	135	150	133	137	113	92	93	109	-6.0	17.2	-3.0
CLINICAL MEDICINE, N.E.C.	74	112	65	74	85	67	85	78	2.3	-8.2	.8
HEALTH RELATED, N.E.C.	818	1,009	1,129	1,003	1,272	1,106	1,050	1,107	4.2	5.4	4.4
PSYCHOLOGY	5,983	6,063	5,569	5,468	5,697	5,564	5,474	5,392	-1.5	-1.5	-1.5
SOCIAL SCIENCES	18,281	19,281	17,792	17,562	18,347	17,995	16,818	16,791	-1.4	-.2	-1.2
AGRICULTURAL ECONOMICS	722	756	688	692	678	668	622	637	-2.5	2.4	-1.8
ANTHROPOLOGY	1,335	1,326	1,141	1,110	966	928	896	836	-6.4	-6.7	-6.5
ECONOMICS (EXCEPT AGRICULTURAL)	2,931	2,990	2,895	2,642	2,863	2,927	2,906	2,746	-.1	-5.5	-.7
GEOGRAPHY	826	777	676	658	686	711	652	674	-3.9	3.4	-2.9
HISTORY AND PHILOSOPHY OF SCIENCE	73	60	53	43	62	26	53	52	-5.2	-1.9	-4.7
LINGUISTICS	806	636	578	693	705	764	655	786	-3.4	20.0	-.4
POLITICAL SCIENCE	4,485	4,939	4,202	4,800	4,913	4,796	4,670	4,516	.7	-3.3	.1
SOCIOLOGY	1,706	1,678	1,371	1,286	1,314	1,229	1,130	1,129	-6.6	-.1	-5.7
SOCIOLOGY/ANTHROPOLOGY	259	273	218	227	203	153	200	159	-4.4	-20.5	-6.7
SOCIAL SCIENCES, N.E.C.	5,138	5,846	5,970	5,431	5,957	5,793	5,034	5,256	-.3	4.4	.3

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-10. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS BEYOND FIRST YEAR IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	135,968	137,231	142,256	150,376	153,188	157,828	160,278	165,305	2.8	3.1	2.8
ENGINEERING	20,545	21,034	22,643	24,800	26,211	28,492	30,942	34,621	7.1	11.9	7.7
AEROSPACE	741	765	727	736	800	917	988	1,222	4.9	23.7	7.4
AGRICULTURAL	301	363	402	445	415	446	491	500	8.5	1.8	7.5
BIOMEDICAL	467	467	476	577	556	590	566	653	3.3	15.4	4.9
CHEMICAL	2,140	2,221	2,457	2,738	2,937	3,272	3,694	4,009	9.5	8.5	9.4
CIVIL	3,483	3,661	4,276	4,662	4,772	5,322	5,826	6,099	9.0	4.7	8.3
ELECTRICAL	4,636	4,811	5,035	5,289	5,914	6,229	6,886	8,321	6.8	20.8	8.7
ENGINEERING SCIENCE	711	740	775	778	817	879	888	948	3.8	6.8	4.2
INDUSTRIAL	1,807	1,633	1,764	2,317	2,225	2,274	2,258	2,445	3.8	8.3	4.4
MECHANICAL	2,733	2,707	2,944	3,269	3,439	3,906	4,475	5,119	8.6	14.4	9.4
METALLURGICAL/MATERIALS	1,297	1,357	1,382	1,462	1,526	1,821	1,809	1,938	5.7	7.1	5.9
MINING	214	229	233	194	205	252	244	259	2.2	6.1	2.8
NUCLEAR	811	772	768	799	715	706	711	717	-2.2	.8	-1.7
PETROLEUM	152	187	218	221	247	277	299	407	11.9	36.1	15.1
ENGINEERING, N.E.C.	1,052	1,121	1,186	1,313	1,623	1,606	1,807	1,984	9.4	9.8	9.5
PHYSICAL SCIENCES	15,579	15,526	15,812	16,348	16,521	16,785	17,428	18,069	1.9	3.7	2.1
ASTRONOMY	497	455	464	477	445	438	444	462	-1.9	4.1	-1.0
CHEMISTRY	8,708	8,837	9,168	9,570	9,695	9,770	10,216	10,722	2.7	5.0	3.0
PHYSICS	6,323	6,249	6,141	6,264	6,340	6,544	6,730	6,850	1.0	1.8	1.2
PHYSICAL SCIENCES, N.E.C.	51	55	39	37	51	33	38	35	-4.8	-7.9	-5.2
ENVIRONMENTAL SCIENCES	6,257	6,496	6,727	7,003	6,914	7,272	7,442	7,911	2.9	6.3	3.4
ATMOSPHERIC SCIENCES	547	512	500	509	532	500	553	573	.2	3.6	.7
GEOSCIENCES	3,972	4,124	4,355	4,499	4,575	4,658	4,902	5,340	3.6	8.9	4.3
OCEANOGRAPHY	1,071	1,114	1,090	1,091	1,132	1,214	1,173	1,157	1.5	-1.4	1.1
ENVIRONMENTAL SCIENCES, N.E.C.	667	745	782	904	675	900	814	841	3.4	3.3	3.4
MATHEMATICAL/COMPUTER SCIENCES	7,362	8,737	8,882	9,396	9,749	10,422	11,780	12,878	3.9	9.3	4.7
COMPUTER SCIENCE	2,651	2,427	2,695	3,132	3,620	3,957	5,011	5,866	11.2	17.1	12.0
MATHEMATICS AND APPLIED MATHEMATICS	5,714	5,307	5,209	5,301	5,103	5,343	5,667	5,898	-.1	4.1	.5
STATISTICS	997	1,003	978	963	1,026	1,122	1,102	1,114	1.7	1.1	1.6
LIFE SCIENCES	38,356	40,013	42,433	44,462	44,779	45,470	44,664	44,586	2.6	-.2	2.2
AGRICULTURAL SCIENCES	5,484	5,768	6,212	6,506	6,635	6,809	6,729	6,722	3.5	-.1	3.0
BIOLOGICAL SCIENCES	24,455	25,224	25,882	26,390	26,305	26,313	26,269	26,103	1.2	-.6	.9
ANATOMY	756	779	796	818	766	737	718	718	-.9	.0	-.7
BIOCHEMISTRY	2,587	2,679	2,839	2,830	2,901	2,838	2,906	3,012	2.0	3.6	2.2
BIOLOGY	5,863	5,844	5,837	5,802	5,740	5,676	5,565	5,619	-.9	1.0	-.6
BIOMETRY/EPIDEMIOLOGY	450	570	601	591	669	667	670	624	6.3	-3.9	4.8
BIOPHYSICS	441	433	409	420	392	370	370	344	-5.2	7.5	-3.5
BOTANY	2,188	2,382	2,426	2,438	2,294	2,271	2,357	2,273	1.2	-3.6	.5
CELL BIOLOGY	519	568	615	678	761	792	887	877	9.3	-1.1	7.8
ECOLOGY	600	719	729	617	718	728	718	650	3.0	-9.5	1.2
ENTOMOLOGY/PARASITOLOGY	1,001	985	1,095	1,098	1,149	1,109	1,057	1,045	.9	-1.1	.6
GENETICS	562	648	654	654	633	624	659	688	2.7	4.4	2.9
MICROBIOLOGY	2,510	2,563	2,586	2,609	2,627	2,578	2,614	2,713	.7	3.8	1.1
NUTRITION	1,521	1,619	1,760	1,904	1,935	2,173	2,096	1,953	5.5	-6.8	3.6
PATHOLOGY	639	662	701	752	751	776	767	790	3.1	3.0	3.1
PHARMACOLOGY	1,137	1,236	1,333	1,423	1,435	1,450	1,507	1,481	4.8	-1.7	3.8
PHYSIOLOGY	1,427	1,475	1,353	1,399	1,382	1,335	1,286	1,222	-1.7	-5.0	-2.2
ZOOLOGY	2,023	1,903	1,804	1,867	1,682	1,703	1,644	1,541	-3.4	-6.3	-3.8
BIOSCIENCES, N.E.C.	235	252	344	490	472	486	519	553	14.1	6.6	13.0
HEALTH SCIENCES	8,413	9,021	10,339	11,566	11,799	12,348	11,666	11,761	5.6	.8	4.9
ANESTHESIOLOGY	4	0	3	12	8	11	14	7	23.2	-50.0	8.3
CANCER/ONCOLOGY	44	38	48	54	46	50	53	55	3.2	3.8	3.2
CARDIOLOGY	0	2	3	2	12	3	3	3	**	.0	**
DENTISTRY	418	446	436	560	510	457	450	452	1.2	.4	1.1
ENDOCRINOLOGY	20	22	23	34	31	38	40	52	12.2	30.0	14.6
GASTROENTEROLOGY	4	4	5	0	0	3	1	0	-20.6	-100.0	-100.0
HEMATOLOGY	2	5	6	7	4	7	3	6	7.0	100.0	17.0
NEUROLOGY	176	176	189	185	175	143	149	187	-2.7	25.5	.9
NURSING	1,449	2,102	2,585	2,842	2,817	3,445	3,285	3,118	14.4	-5.1	11.4
OBSTETRICS/GYNECOLOGY	30	14	24	25	3	5	8	13	-19.8	62.5	-11.3
OPHTHALMOLOGY	8	8	1	3	13	14	6	5	.0	-16.7	-2.6
OTORHINOLARYNGOLOGY	29	28	29	12	13	8	3	1	-34.8	-66.7	-40.7
PEDIATRICS	43	45	39	51	57	113	86	71	12.2	-17.4	7.4
PHARMACEUTICAL SCIENCES	953	1,027	1,079	1,139	1,155	1,179	1,242	1,266	4.5	1.9	4.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,355	1,270	1,703	2,026	2,065	2,185	1,831	1,967	5.1	7.4	5.5
PSYCHIATRY	74	97	91	98	43	52	56	57	-4.5	1.8	-3.7
PULMONARY DISEASE	0	1	6	1	11	6	4	1	**	-75.0	**
RADIOLOGY	187	191	164	165	169	185	143	112	-4.4	-21.7	-7.1
SPEECH PATHOLOGY/AUDIOLOGY	2,339	2,225	2,518	2,544	2,659	2,459	2,529	2,549	1.3	.8	1.2
SURGERY	85	76	89	49	69	61	55	50	-7.0	-9.1	-7.3
VETERINARY SCIENCES	186	229	238	286	269	258	263	228	5.9	-13.3	3.0
CLINICAL MEDICINE, N.E.C.	108	106	106	152	187	159	205	215	11.3	4.9	10.3
HEALTH RELATED, N.E.C.	871	889	963	1,319	1,483	1,511	1,237	1,346	6.0	8.8	6.4
PSYCHOLOGY	15,499	15,203	15,142	15,269	15,883	15,980	15,629	15,935	.1	2.0	.4
SOCIAL SCIENCES	30,570	30,152	30,617	33,098	33,171	33,407	32,393	31,305	1.1	-3.4	.4
AGRICULTURAL ECONOMICS	1,214	1,200	1,301	1,250	1,350	1,347	1,334	1,357	1.6	1.7	1.6
ANTHROPOLOGY	3,557	3,598	3,387	3,354	3,510	3,316	3,131	3,088	-2.1	-1.4	-2.0
ECONOMICS (EXCEPT AGRICULTURAL)	4,855	5,043	5,244	5,481	6,084	6,162	6,181	6,179	4.1	*	3.5
GEOGRAPHY	1,343	1,255	1,348	1,218	1,363	1,335	1,325	1,341	-.2	1.2	*
HISTORY AND PHILOSOPHY OF SCIENCE	197	197	188	191	179	191	170	177	-2.4	4.1	-1.5
LINGUISTICS	1,342	1,263	1,298	1,556	1,529	1,487	1,490	1,530	1.8	2.7	1.9
POLITICAL SCIENCE	6,771	6,544	7,009	7,507	7,019	7,749	7,441	7,253	1.6	-2.5	1.0
SOCIOLOGY	4,282	4,046	3,543	3,856	3,977	3,866	3,513	3,453	-3.2	-1.7	-3.0
SOCIOLOGY/ANTHROPOLOGY	416	461	381	396	386	371	412	437	-.2	6.1	.7
SOCIAL SCIENCES, N.E.C.	6,393	6,545	6,918	8,289	7,774	7,583	7,396	6,490	2.5	-12.2	.2

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-11. — MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	156,257	154,303	152,334	154,605	155,293	157,196	162,185	.1	3.2	.5
ENGINEERING	34,240	34,350	35,867	38,016	40,178	43,445	47,748	4.0	9.9	4.9
AEROSPACE	1,130	1,151	1,115	1,270	1,429	1,446	1,745	4.2	20.7	6.4
AGRICULTURAL	512	593	617	601	629	689	708	5.1	2.8	4.7
BIOMEDICAL	700	647	716	658	704	734	790	.8	7.6	1.7
CHEMICAL	3,424	3,568	3,743	3,969	4,393	4,864	5,032	6.0	3.5	5.7
CIVIL	6,394	6,596	6,748	7,077	7,575	8,072	8,559	4.0	6.0	4.3
ELECTRICAL	7,768	7,959	8,401	9,149	9,464	10,480	11,933	5.1	13.9	6.3
ENGINEERING SCIENCE	1,058	1,052	978	1,041	1,099	1,133	1,207	1.1	6.5	1.9
INDUSTRIAL	3,097	2,839	3,061	2,932	2,761	2,850	3,076	-1.4	7.9	-.1
MECHANICAL	4,742	4,638	5,082	5,416	5,994	6,704	7,728	5.9	15.3	7.2
METALLURGICAL/MATERIALS	1,746	1,801	1,908	2,006	2,152	2,148	2,366	3.5	10.1	4.4
MINING	385	341	268	292	337	318	368	-3.1	15.7	-.6
NUCLEAR	1,172	1,108	1,000	970	960	969	978	-3.1	.9	-2.6
PETROLEUM	314	290	307	335	396	437	544	5.7	24.5	8.2
ENGINEERING, N.E.C.	1,797	1,767	1,923	2,300	2,325	2,601	2,714	6.4	4.3	6.1
PHYSICAL SCIENCES	18,674	18,696	18,467	18,721	18,785	19,127	19,847	.4	3.8	.9
ASTRONOMY	560	529	540	521	482	496	500	-2.0	.8	-1.6
CHEMISTRY	10,196	10,288	10,318	10,432	10,318	10,561	10,985	.6	4.0	1.1
PHYSICS	7,867	7,829	7,576	7,728	7,949	8,033	8,333	.3	3.7	.8
PHYSICAL SCIENCES, N.E.C.	51	50	33	40	36	37	29	-5.2	-21.6	-7.7
ENVIRONMENTAL SCIENCES	8,118	8,292	8,024	7,930	8,039	8,208	8,610	.2	4.9	.8
ATMOSPHERIC SCIENCES	747	736	656	655	631	657	662	-2.1	.8	-1.7
GEOSCIENCES	5,111	5,247	5,189	5,234	5,257	5,540	6,020	1.4	8.7	2.4
OCEANOGRAPHY	1,210	1,214	1,141	1,151	1,166	1,130	1,120	-1.1	-.9	-1.1
ENVIRONMENTAL SCIENCES, N.E.C.	1,050	1,095	1,031	890	985	881	808	-2.9	-8.2	-3.7
MATHEMATICAL/COMPUTER SCIENCES	11,657	11,201	11,303	11,896	12,322	13,562	14,710	2.6	8.5	3.4
COMPUTER SCIENCE	3,623	3,520	4,163	4,668	5,000	5,940	7,056	8.6	18.8	10.0
MATHEMATICS AND APPLIED MATHEMATICS	6,903	6,556	6,058	6,103	6,183	6,506	6,554	-1.0	.7	-.7
STATISTICS	1,131	1,125	1,082	1,125	1,139	1,116	1,100	-.2	-1.4	-.4
LIFE SCIENCES	39,322	38,988	37,521	37,331	36,485	34,988	34,552	-1.9	-1.2	-1.8
AGRICULTURAL SCIENCES	7,618	7,571	7,260	7,299	7,388	7,128	7,028	-1.1	-1.4	-1.1
BIOLOGICAL SCIENCES	24,624	24,374	23,068	22,633	22,100	21,344	21,195	-2.4	-.7	-2.1
ANATOMY	743	718	665	615	617	580	569	-4.0	-1.9	-3.7
BIOCHEMISTRY	2,570	2,593	2,519	2,516	2,515	2,460	2,539	-.7	3.2	-.2
BIOLOGY	6,207	5,983	5,405	5,115	4,902	4,693	4,655	-4.6	-.8	-4.0
BIOMETRY/EPIDEMIOLOGY	397	508	508	543	572	453	424	2.2	-6.4	.9
BIOPHYSICS	469	443	407	373	334	316	330	-6.4	4.4	-4.9
BOTANY	2,317	2,407	2,202	2,119	1,991	2,007	1,931	-2.4	-3.8	-2.6
CELL BIOLOGY	472	508	532	596	634	704	747	6.9	6.1	6.8
ECOLOGY	577	681	595	650	633	593	551	.5	-7.1	-.7
ENTOMOLOGY/PARASITOLOGY	1,210	1,149	1,166	1,117	1,144	1,021	969	-2.8	-5.1	-3.1
GENETICS	454	521	457	461	448	437	484	-.6	10.8	.9
MICROBIOLOGY	2,328	2,348	2,093	2,115	2,020	2,002	2,066	-2.5	4.2	-1.6
NUTRITION	1,219	1,120	1,161	1,178	1,170	1,124	1,040	-1.3	-7.5	-2.2
PATHOLOGY	637	614	696	683	683	635	671	-.1	5.7	.7
PHARMACOLOGY	1,195	1,225	1,322	1,280	1,267	1,265	1,256	1.0	-.7	.7
PHYSIOLOGY	1,491	1,432	1,328	1,299	1,298	1,202	1,169	-3.5	-2.7	-3.4
ZOOLOGY	2,105	1,821	1,614	1,489	1,472	1,424	1,375	-4.3	-3.4	-5.9
BIOSCIENCES, N.E.C.	233	241	398	384	400	428	399	10.7	-6.8	8.0
HEALTH SCIENCES	7,080	7,043	7,193	7,399	6,997	6,516	6,329	-1.4	-2.9	-1.6
ANESTHESIOLOGY	3	2	7	2	4	6	12	12.2	100.0	21.9
CANCER/ONCOLOGY	47	54	45	39	47	44	46	-1.1	4.5	-.3
CARDIOLOGY	0	2	3	16	3	2	2	**	.0	**
DENTISTRY	678	687	760	716	611	588	574	-2.3	-2.4	-2.4
ENDOCRINOLOGY	22	21	28	24	21	20	33	-1.6	65.0	6.0
GASTROENTEROLOGY	8	8	0	0	3	1	0	-29.3	-100.0	-100.0
HEMATOLOGY	1	3	7	2	2	1	2	.0	100.0	10.4
NEUROLOGY	148	156	151	145	124	132	172	-1.9	30.3	2.2
NURSING	148	236	336	287	330	345	296	15.1	-14.2	10.4
OBSTETRICS/GYNECOLOGY	38	16	24	4	4	7	10	-24.6	42.9	-17.4
OPHTHALMOLOGY	6	5	3	8	15	7	3	2.6	-57.1	-9.4
OTORHINOLARYNGOLOGY	50	28	12	13	9	10	4	-23.5	-60.0	-30.3
PEDIATRICS	55	39	35	27	43	68	30	3.6	-55.9	-8.3
PHARMACEUTICAL SCIENCES	1,121	1,207	1,186	1,191	1,165	1,183	1,186	.9	.3	.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,776	1,662	2,091	2,189	2,124	1,835	1,776	.5	-3.2	.0
PSYCHIATRY	65	75	53	23	28	36	39	-9.4	8.3	-7.0
PULMONARY DISEASE	0	3	0	13	5	7	1	**	-85.7	**
RADIOLOGY	212	217	170	184	188	154	133	-5.2	-13.6	-6.4
SPEECH PATHOLOGY/AUDIOLOGY	1,320	1,169	818	829	719	737	721	-9.3	-2.2	-8.3
SURGERY	110	88	63	71	72	76	58	-6.0	-23.7	-8.7
VETERINARY SCIENCES	242	288	301	252	226	226	214	-1.1	-5.3	-1.7
CLINICAL MEDICINE, N.E.C.	153	170	148	170	137	177	171	2.5	-3.4	1.6
HEALTH RELATED, N.E.C.	877	907	952	1,194	1,117	854	846	-.4	-.9	-.5
PSYCHOLOGY	12,203	11,604	10,612	10,618	10,173	9,604	9,591	-3.9	-.1	-3.4
SOCIAL SCIENCES	32,043	31,172	30,540	30,093	29,311	28,262	27,127	-2.1	-4.0	-2.4
AGRICULTURAL ECONOMICS	1,738	1,706	1,596	1,617	1,582	1,563	1,577	-1.8	.9	-1.4
ANTHROPOLOGY	2,557	2,492	2,201	2,146	1,944	1,861	1,718	-5.2	-7.7	-5.5
ECONOMICS (EXCEPT AGRICULTURAL)	6,469	6,527	6,469	6,992	7,087	6,930	6,829	1.2	-1.5	.8
GEOGRAPHY	1,664	1,493	1,330	1,470	1,407	1,387	1,356	-3.0	-2.2	-2.9
HISTORY AND PHILOSOPHY OF SCIENCE	201	183	171	168	142	149	145	-4.9	-2.7	-4.6
LINGUISTICS	975	896	1,044	1,014	1,000	942	998	-.6	5.9	.3
POLITICAL SCIENCE	8,668	8,512	8,587	8,130	8,437	8,070	7,721	-1.2	-4.3	-1.6
SOCIOLOGY	3,432	3,184	2,754	2,698	2,562	2,245	2,244	-6.8	*	-5.9
SOCIOLOGY/ANTHROPOLOGY	383	438	344	314	258	302	279	-3.9	-7.6	-4.4
SOCIAL SCIENCES, N.E.C.	5,956	5,741	6,052	5,544	4,892	4,813	4,260	-3.5	-11.5	-4.7

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-12. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	57,832	63,150	71,075	75,930	78,901	79,743	81,461	5.5	2.2	5.0
ENGINEERING	1,991	2,325	3,477	3,923	4,639	5,242	5,805	17.5	10.7	16.5
AEROSPACE	23	27	36	54	51	73	80	21.2	9.6	19.5
AGRICULTURAL	17	27	28	30	43	50	58	19.7	16.0	19.2
BIOMEDICAL	55	76	111	130	149	174	222	21.2	27.6	22.1
CHEMICAL	233	275	424	462	528	660	758	19.0	14.8	18.4
CIVIL	498	633	994	1,033	1,233	1,355	1,398	18.2	3.2	15.9
ELECTRICAL	295	377	450	544	692	797	910	18.0	14.2	17.5
ENGINEERING SCIENCE	77	59	75	90	105	119	132	7.5	10.9	8.0
INDUSTRIAL	378	373	565	644	671	740	841	11.8	13.6	12.1
MECHANICAL	119	137	255	314	343	424	471	23.6	11.1	21.7
METALLURGICAL/MATERIALS	107	140	212	230	284	305	320	19.1	4.9	16.9
MINING	15	17	24	26	35	33	36	14.0	9.1	13.3
NUCLEAR	49	46	75	73	72	73	74	6.9	1.4	6.1
PETROLEUM	9	11	29	26	34	33	63	24.2	90.9	32.0
ENGINEERING, N.E.C.	116	135	199	267	399	406	442	23.2	8.9	21.1
PHYSICAL SCIENCES	2,916	3,051	3,330	3,533	3,815	4,203	4,629	6.3	10.1	6.8
ASTRONOMY	69	74	74	72	83	94	85	5.3	-9.6	3.0
CHEMISTRY	2,193	2,289	2,524	2,644	2,844	3,183	3,508	6.4	10.2	6.9
PHYSICS	633	661	713	791	865	910	1,014	6.2	11.4	7.0
PHYSICAL SCIENCES, N.E.C.	21	27	19	26	23	16	22	-4.4	37.5	.7
ENVIRONMENTAL SCIENCES	1,550	1,727	2,147	2,335	2,452	2,665	2,818	9.5	5.7	8.9
ATMOSPHERIC SCIENCES	67	67	83	91	108	114	116	9.3	1.8	8.2
GEOSCIENCES	995	1,058	1,364	1,518	1,585	1,745	1,888	9.8	8.2	9.6
OCEANOGRAPHY	258	295	340	379	423	421	427	8.5	1.4	7.5
ENVIRONMENTAL SCIENCES, N.E.C.	230	307	360	347	336	385	387	9.0	.5	7.7
MATHEMATICAL/COMPUTER SCIENCES	2,907	2,809	2,906	3,372	3,823	4,520	4,871	7.6	7.8	7.7
COMPUTER SCIENCE	660	676	910	1,232	1,465	1,958	2,202	20.0	11.9	18.8
MATHEMATICS AND APPLIED MATHEMATICS	1,892	1,787	1,668	1,756	1,956	2,102	2,212	1.8	5.2	2.3
STATISTICS	355	346	328	384	402	450	457	4.0	1.6	3.7
LIFE SCIENCES	27,581	25,315	28,950	30,380	30,710	30,665	30,633	5.2	-.1	4.5
AGRICULTURAL SCIENCES	2,422	1,725	2,111	2,292	2,242	2,378	2,369	8.9	-.1	7.6
BIOLOGICAL SCIENCES	11,000	11,854	12,769	13,184	13,354	13,882	14,068	4.0	1.3	3.6
ANATOMY	317	344	376	375	346	357	368	2.0	3.1	2.2
BIOCHEMISTRY	937	1,015	1,130	1,201	1,234	1,372	1,476	6.6	7.6	6.7
BIOLOGY	2,810	2,895	2,825	2,937	2,823	2,931	3,031	.7	3.4	1.1
BIOMETRY/EPIDEMIOLOGY	354	386	459	502	427	466	453	4.7	-2.8	3.6
BIOPHYSICS	104	110	91	103	123	107	113	.5	5.6	1.2
BOTANY	957	1,003	1,018	1,035	1,033	1,136	1,082	2.9	-4.8	1.8
CELL BIOLOGY	246	269	27	336	355	406	382	8.7	-5.9	6.5
ECOLOGY	212	246	224	297	298	312	284	6.7	-9.0	4.3
ENTOMOLOGY/PARASITOLOGY	206	240	297	308	308	319	336	7.6	5.3	7.2
GENETICS	331	384	375	376	378	440	435	4.9	-1.1	4.0
MICROBIOLOGY	1,246	1,272	1,393	1,444	1,442	1,497	1,558	3.1	4.1	3.2
NUTRITION	1,269	1,566	1,784	1,737	1,924	1,902	1,855	7.0	-2.5	5.6
PATHOLOGY	301	321	334	344	367	379	397	3.9	4.7	4.0
PHARMACOLOGY	394	441	529	604	646	674	700	9.4	3.9	8.6
PHYSIOLOGY	478	474	564	554	626	603	623	3.9	3.3	3.9
ZOOLOGY	727	768	791	765	755	694	683	-.4	-1.6	-.9
BIOSCIENCES, N.E.C.	111	116	252	266	269	287	292	17..	1.7	14.8
HEALTH SCIENCES	10,159	11,736	14,070	14,904	15,114	14,411	14,196	6..	-1.5	4.9
ANESTHESIOLOGY	2	1	11	11	12	13	15	36.6	15.4	33.4
CANCER/ONCOLOGY	20	21	16	15	6	25	27	3.8	8.0	4.4
CARDIOLOGY	0	1	0	1	0	1	1	**	.0	**
DENTISTRY	80	94	164	172	150	139	154	9.6	10.8	9.8
ENDOCRINOLOGY	11	10	15	24	25	30	31	18.2	3.3	16.0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	2	4	7	6	7	5	7	16.5	40.0	19.6
NEUROLOGY	63	69	74	67	51	56	72	-1.9	28.6	1.9
NURSING	3,683	5,020	5,805	5,953	6,405	5,837	5,421	8.0	-7.1	5.7
OBSTETRICS/GYNECOLOGY	14	9	9	1	6	8	5	-8.9	-37.5	-13.7
OPHTHALMOLOGY	2	4	2	7	4	1	4	-10.9	300.0	10.4
OTORHINOLARYNGOLOGY	9	16	1	1	2	1	1	-30.7	.0	-26.9
PEDIATRICS	88	73	84	100	102	74	108	-2.4	42.1	3.0
PHARMACEUTICAL SCIENCES	301	370	438	449	507	507	542	9.1	6.9	8.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,497	1,382	2,200	2,324	2,319	2,194	2,145	6.6	-2.2	5.3
PSYCHIATRY	49	52	67	38	29	32	41	-6.9	28.1	-2.5
PULMONARY DISEASE	0	0	1	2	4	3	1	**	-66.7	**
RADIOLOGY	58	53	50	49	49	54	36	-1.2	-33.3	-6.6
SPEECH PATHOLOGY/AUDIOLOGY	3,342	3,411	3,573	3,877	3,712	3,742	3,718	1.9	-.6	1.5
SURGERY	18	16	3	14	11	11	15	-7.9	36.4	-2.6
VETERINARY SCIENCES	79	91	122	130	124	130	123	8.7	-5.4	6.5
CLINICAL MEDICINE, N.E.C.	29	48	78	102	89	113	122	25.4	8.0	22.8
HEALTH RELATED, N.E.C.	812	991	1,370	1,561	1,500	1,433	1,607	9.9	12.1	12.2
PSYCHOLOGY	9,279	9,662	10,125	10,962	11,371	11,499	11,730	3.6	2.1	3.4
SOCIAL SCIENCES	16,608	18,261	20,140	21,425	22,091	20,949	20,969	3.9	.1	3.4
AGRICULTURAL ECONOMICS	198	250	346	411	433	393	417	12.1	6.1	11.2
ANTHROPOLOGY	2,335	2,432	2,263	2,330	2,300	2,166	2,206	-1.2	1.8	-.8
ECONOMICS (EXCEPT AGRICULTURAL)	1,917	1,506	1,654	1,955	2,002	2,157	2,096	8.6	-2.8	6.9
GEOGRAPHY	505	539	546	579	639	590	659	2.6	11.7	3.9
HISTORY AND PHILOSOPHY OF SCIENCE	69	74	63	73	75	74	84	1.2	13.5	2.8
LINGUISTICS	1,173	1,003	1,205	1,220	1,251	1,203	1,318	.4	9.6	1.7
POLITICAL SCIENCE	3,588	2,971	3,720	3,802	4,108	4,041	4,048	7.7	.2	6.6
SOCIOLOGY	2,556	2,540	2,388	2,593	2,533	2,398	2,338	-1.1	-2.5	-1.3
SOCIOLOGY/ANTHROPOLOGY	292	296	287	275	266	310	317	1.0	2.3	1.2
SOCIAL SCIENCES, N.E.C.	5,575	6,650	7,668	8,187	8,484	7,617	7,486	5.3	-1.7	4.3

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-13. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1976-83

DIVISION AND STATE	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL INSTITUTIONS	214,089	217,452	216,608	223,409	230,535	234,194	[illegible],939	243,646	1.7	2.8	1.9
NEW ENGLAND	16,978	16,700	17,018	17,936	19,096	19,409	19,449	20,241	2.3	4.1	2.5
CONNECTICUT	3,111	3,044	3,039	3,120	3,456	3,567	3,691	3,763	2.9	2.0	2.4
MAINE	389	378	378	355	344	313	361	412	-1.2	14.1	.8
MASSACHUSETTS	11,224	11,020	11,374	12,138	13,034	13,217	12,939	13,543	2.4	4.7	2.7
NEW HAMPSHIRE	601	632	530	690	647	613	672	671	1.9	-.1	1.6
RHODE ISLAND	1,268	1,281	1,353	1,3[illegible]	1,233	1,301	1,371	1,426	1.3	4.0	1.7
VERMONT	385	345	344	361	382	398	415	426	1.3	2.7	1.5
MIDDLE ATLANTIC	30,530	31,096	30,864	31,995	34,591	36,272	36,490	36,930	3.0	1.2	2.8
NEW JERSEY	3,222	3,190	3,490	3,626	3,[illegible]	4,091	4,060	4,072	3.9	.3	3.4
NEW YORK	18,602	19,078	18,722	19,465	20,907	22,783	21,962	22,067	2.8	.5	2.5
PENNSYLVANIA	8,706	8,828	8,652	8,904	9,779	10,398	10,468	10,791	3.1	3.1	3.1
EAST NORTH CENTRAL	43,459	43,728	42,637	43,350	44,197	43,752	43,311	[illegible],341	.1	3.5	.6
ILLINOIS	11,070	11,115	11,063	11,312	11,577	11,470	11,65[illegible]	12,446	.9	6.8	1.7
INDIANA	5,751	5,663	5,677	5,655	5,737	5,751	5,79[illegible]	5,918	.1	2.1	.4
MICHIGAN	9,896	10,234	9,666	9,825	9,670	9,098	9,09[illegible]	9,319	-1.4	2.5	-.9
OHIO	10,301	10,544	10,316	1[illegible],655	11,075	[illegible],[illegible]28	11,05[illegible]	11,550	.9	4.5	1.4
WISCONSIN	6,241	6,172	5,915	[illegible],903	6,138	6,313	6,212	6,108	-.1	-1.7	-.3
WEST NORTH CENTRAL	16,988	16,863	16,620	17,061	17,839	17,823	17,972	18,437	.9	2.6	1.2
IOWA	3,140	3,101	3,199	3,447	3,532	3,478	3,739	3,982	3.0	6.5	3.5
KANSAS	3,018	3,096	3,054	2,988	3,327	3,308	3,325	3,504	1.6	5.4	2.2
MINNESOTA	4,238	4,054	4,050	4,259	4,321	4,360	4,29[illegible]	4,291	.2	-.1	.2
MISSOURI	4,276	4,200	3,893	3,899	3,979	3,876	3,833	3,723	-1.8	-2.9	-2.0
NEBRASKA	1,191	1,329	1,326	1,431	1,488	1,531	1,512	1,552	4.1	2.6	3.9
NORTH DAKOTA	701	607	633	589	687	757	770	802	1.6	4.2	1.9
SOUTH DAKOTA	424	476	465	448	505	513	499	[illegible]	2.8	16.8	4.7
SOUTH ATLANTIC	28,037	28,932	29,104	30,532	30,878	32,070	32,42[illegible]	32,653	2.5	.7	2.2
DELAWARE	572	630	635	710	733	726	734	776	4.2	5.7	4.5
DISTRICT OF COLUMBIA	3,229	3,754	3,499	3,961	3,557	3,726	3,428	3,207	1.0	-6.4	-.1
FLORIDA	5,154	4,942	4,998	5,364	5,453	6,047	6,229	6,146	3.2	-1.3	2.5
GEORGIA	3,616	3,792	3,951	4,020	4,191	4,458	4,59[illegible]	4,540	4.1	-1.2	3.3
MARYLAND	3,422	3,446	3,384	3,489	3,464	3,563	3,53[illegible]	3,714	.5	5.1	1.2
NORTH CAROLINA	4,844	4,949	5,193	5,458	5,557	5,486	5,83[illegible]	5,[illegible]19	3.1	1.5	2.9
SOUTH CAROLINA	1,929	1,937	[illegible],755	1,799	1,950	1,93[illegible]	1,91[illegible]	2,101	-.1	9.8	1.2
VIRGINIA	3,892	4,097	4,212	4,342	4,643	4,864	4,860	4,[illegible]51	3.8	1.9	3.5
WEST VIRGINIA	1,379	1,384	1,477	1,389	1,330	1,262	1,298	1,299	-1.0	.1	-.9
EAST SOUTH CENTRAL	8,851	9,256	9,244	9,359	9,144	8,918	8,831	9,08[illegible]	*	2.9	.4
ALABAMA	1,864	2,079	2,287	2,433	2,404	2,288	2,264	2,318	3.3	2.4	3.2
KENTUCKY	1,725	1,774	1,746	1,778	1,818	1,885	1,867	1,932	1.3	3.5	1.6
MISSISSIPPI	1,434	1,482	1,546	1,526	1,456	1,418	1,503	1,650	.8	9.8	2.0
TENNESSEE	3,828	3,921	3,665	3,622	3,466	3,327	3,197	3,189	-3.0	-.3	-2.6
WEST SOUTH CENTRAL	17,272	18,208	18,243	18,943	19,27[illegible]	19,403	20,889	22,583	3.2	8.1	3.9
ARKANSAS	753	78[illegible]	744	774	760	864	890	856	2.8	-3.8	1.8
LOUISIANA	2,063	2,226	2,493	2,482	2,508	2,769	2,994	3,153	6.4	5.3	6.2
OKLAHOMA	2,437	2,677	2,669	2,730	2,921	2,550	2,790	3,011	2.3	7.9	3.1
TEXAS	12,019	12,524	12,337	12,957	13,088	13,220	14,215	15,563	2.8	9.5	3.8
MOUNTAIN	15,581	15,207	15,203	15,162	15,494	15,898	16,659	17,239	1.1	3.5	1.5
ARIZONA	3,455	3,410	3,417	3,452	3,744	3,819	4,096	4,430	2.9	8.2	3.6
COLORADO	5,789	5,416	5,198	5,110	5,007	5,23[illegible]	5,212	5,205	-1.7	-.1	-1.5
IDAHO	740	792	795	653	640	621	655	653	-2.0	-.3	-1.8
MONTANA	739	717	687	686	756	[illegible]51	901	930	3.4	3.2	3.3
NEVADA	399	346	326	361	365	352	355	390	-1.9	9.9	-.3
NEW MEXICO	1,248	1,263	1,439	1,522	1,566	[illegible],[illegible]4	1,649	1,784	4.8	8.2	5.2
UTAH	2,613	2,668	2,[illegible]51	2,821	2,990	2,8[illegible]1	3,090	3,053	2.8	-1.2	2.2
WYOMING	598	595	6[illegible]	557	426	665	701	794	2.7	13.3	4.1
PACIFIC	35,377	36,394	36,619	38,116	38,696	39,259	38,956	39,517	1.6	1.4	1.6
ALASKA	170	190	223	234	244	228	271	325	8.1	19.9	9.7
CALIFORNIA	27,075	27,319	27,475	29,076	29,182	30,145	30,281	[illegible],724	1.9	1.5	1.8
HAWAII	1,353	1,373	1,339	1,292	1,723	1,738	1,758	[illegible],670	4.5	-5.0	3.1
OREGON	2,398	2,681	2,706	2,751	2,766	2,619	2,599	2,704	1.4	4.0	1.7
WASHINGTON	4,381	4,831	4,682	4,763	4,781	4,529	4,047	4,094	-1.3	1.2	-1.0
OUTLYING AREAS	1,016	1,069	1,056	955	1,323	1,390	1,459	1,616	6.2	10.8	6.9

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-14. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1976-83

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL AREAS:											
TOTAL, ALL SOURCES	214,089	217,453	216,608	223,409	230,535	234,194	236,939	243,646	1.7	2.8	1.9
FEDERAL, TOTAL	48,594	50,378	51,269	52,871	52,939	50,897	47,206	47,402	-.5	.4	-.4
DEPT OF DEFENSE	4,798	4,993	0	4,998	5,239	5,647	5,861	6,898	3.4	17.7	5.3
DEPT OF HHS, TOTAL	20,366	21,081	21,756	22,649	19,377	18,018	16,040	15,003	-3.9	-6.5	-4.3
NIH	11,360	10,928	10,876	11,660	11,560	11,283	10,866	10,819	-.7	-.4	-.7
OTHER HHS	9,006	10,153	10,880	10,989	7,817	6,735	5,185	4,284	-8.8	-19.2	-10.4
NSF	8,962	9,023	9,009	9,275	9,243	9,084	9,207	9,476	.5	2.9	.8
ALL OTHER FEDERAL	14,468	15,281	20,504	15,949	19,080	18,148	16,098	16,025	1.8	-.5	1.5
INSTITUTIONAL SUPPORT	79,217	80,404	79,727	82,813	86,715	90,261	93,244	96,188	2.8	3.2	2.8
OTHER OUTSIDE SUPPORT, TOTAL	17,680	18,229	19,265	20,039	21,066	22,382	23,630	24,415	5.0	3.3	4.7
ALL OTHER U.S.	11,373	11,323	19,265	12,493	13,063	13,832	14,863	15,725	4.6	5.8	4.7
FOREIGN	6,307	6,906	0	7,546	8,003	8,550	8,767	8,690	5.6	-.9	4.7
SELF-SUPPORT	68,598	68,442	66,347	67,686	69,815	70,654	72,859	75,641	1.0	3.8	1.4
ENGINEERING:											
TOTAL, ALL SOURCES	36,231	36,675	37,057	39,344	41,939	44,817	48,687	53,553	5.0	10.0	5.7
FEDERAL, TOTAL	10,468	10,537	10,451	10,757	11,107	10,923	11,005	11,924	.8	8.4	1.9
DEPT OF DEFENSE	2,628	2,733	0	2,652	2,850	3,139	3,419	3,980	4.5	16.4	6.1
DEPT OF HHS, TOTAL	994	936	991	1,004	661	545	501	575	-10.8	14.8	-7.5
NIH	670	553	548	513	507	446	403	477	-8.1	18.4	-4.7
OTHER HHS	324	373	443	531	154	99	98	98	-18.1	.0	-15.7
NSF	2,563	2,504	2,337	2,412	2,407	2,366	2,567	2,674	*	4.2	.6
ALL OTHER FEDERAL	4,283	4,364	7,123	4,649	5,189	4,873	4,518	4,695	.9	3.9	1.3
INSTITUTIONAL SUPPORT	10,447	10,539	10,593	11,532	12,634	14,100	15,169	16,273	6.4	7.3	6.5
OTHER OUTSIDE SUPPORT, TOTAL	4,780	5,048	5,312	5,557	6,152	6,882	7,637	7,968	8.1	4.3	7.6
ALL OTHER U.S.	3,078	3,197	5,312	3,632	4,149	4,729	5,237	5,641	9.3	7.7	9.0
FOREIGN	1,702	1,891	0	1,925	2,003	2,153	2,400	2,327	5.9	-3.0	4.6
SELF-SUPPORT	10,536	10,511	10,701	11,498	12,046	12,912	14,876	17,388	5.9	16.9	7.4
PHYSICAL SCIENCES:											
TOTAL, ALL SOURCES	21,590	21,747	21,497	21,797	22,254	22,600	23,330	24,476	1.3	4.9	1.8
FEDERAL, TOTAL	6,366	6,574	6,943	7,418	7,655	7,899	7,644	8,047	3.1	5.3	3.4
DEPT OF DEFENSE	493	550	0	640	661	753	706	827	6.2	17.1	7.7
DEPT OF HHS, TOTAL	1,354	1,329	1,407	1,584	1,627	1,515	1,490	1,507	1.6	1.1	1.5
NIH	1,243	1,187	1,276	1,413	1,453	1,408	1,408	1,409	2.1	.1	1.8
OTHER HHS	111	142	131	171	174	107	82	98	-4.9	19.5	-1.8
NSF	2,758	2,763	2,821	2,961	2,878	3,029	3,102	3,207	2.0	3.4	2.2
ALL OTHER FEDERAL	1,761	1,932	2,715	2,233	2,489	2,602	2,346	2,506	4.9	6.8	5.2
INSTITUTIONAL SUPPORT	12,202	12,223	11,780	11,481	11,928	11,924	12,581	13,164	.5	4.6	1.1
OTHER OUTSIDE SUPPORT, TOTAL	1,327	1,346	1,348	1,478	1,307	1,416	1,740	1,677	4.6	-3.6	3.4
ALL OTHER U.S.	949	953	1,348	1,084	948	1,051	1,295	1,215	5.3	-6.2	3.6
FOREIGN	378	393	0	394	359	365	445	462	2.8	3.8	2.9
SELF-SUPPORT	1,695	1,604	1,426	1,420	1,364	1,361	1,365	1,588	-3.5	16.3	-.9
ENVIRONMENTAL SCIENCES:											
TOTAL, ALL SOURCES	9,668	10,019	9,997	10,171	10,265	10,491	10,873	11,428	2.0	5.1	2.4
FEDERAL, TOTAL	2,916	3,055	3,168	3,465	3,369	2,965	2,808	2,839	-.6	1.1	-.4
DEPT OF DEFENSE	368	332	0	328	296	310	300	363	-3.3	21.0	-.2
DEPT OF HHS, TOTAL	178	249	292	283	115	96	73	46	-13.8	-37.0	-17.6
NIH	50	49	31	31	31	17	38	19	-4.5	-50.0	-12.9
OTHER HHS	128	200	261	252	84	79	35	27	-19.4	-22.9	-19.9
NSF	1,196	1,202	1,244	1,271	1,242	1,199	1,186	1,313	-.1	10.7	1.3
ALL OTHER FEDERAL	1,174	1,272	1,632	1,583	1,716	1,360	1,249	1,117	1.0	-10.6	-.7
INSTITUTIONAL SUPPORT	3,480	3,584	3,500	3,509	3,648	3,916	4,097	4,061	2.8	-.9	2.2
OTHER OUTSIDE SUPPORT, TOTAL	765	796	874	865	1,042	1,129	1,199	1,256	7.8	4.8	7.3
ALL OTHER U.S.	450	442	874	541	691	752	839	950	10.9	13.2	11.3
FOREIGN	315	354	0	324	351	377	360	306	2.3	-15.0	-.4
SELF-SUPPORT	2,507	2,584	2,455	2,332	2,206	2,481	2,769	3,272	1.7	18.2	3.9
MATHEMATICAL/COMPUTER SCIENCES:											
TOTAL, ALL SOURCES	14,564	14,010	13,722	14,209	15,268	16,145	18,082	19,581	3.7	8.3	4.3
FEDERAL, TOTAL	1,425	1,437	1,471	1,630	1,721	1,726	1,775	1,794	3.7	1.1	3.3
DEPT OF DEFENSE	583	514	0	608	622	733	730	748	3.8	2.5	3.6
DEPT OF HHS, TOTAL	151	142	160	141	122	85	85	70	-9.1	-17.6	-10.4
NIH	131	122	118	102	100	72	67	54	-10.6	-19.4	-11.9
OTHER HHS	20	20	42	39	22	13	18	16	-1.7	-11.1	-3.1
NSF	480	542	537	584	595	603	613	606	4.2	-1.1	3.4
ALL OTHER FEDERAL	211	237	774	297	382	305	347	370	8.4	6.6	8.4
INSTITUTIONAL SUPPORT	8,310	8,042	7,923	7,946	8,301	8,771	9,406	10,198	2.1	8.4	3.0
OTHER OUTSIDE SUPPORT, TOTAL	850	830	852	1,048	1,121	1,124	1,206	1,196	6.0	-.8	5.0
ALL OTHER U.S.	403	427	852	600	651	619	684	665	9.2	-2.8	7.4
FOREIGN	447	403	0	448	470	505	522	531	2.7	1.7	2.5
SELF-SUPPORT	3,979	3,701	3,476	3,585	4,145	4,524	5,695	6,393	6.2	12.3	7.0

CONTINUED ON NEXT PAGE.

TABLE C-14. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1976–83

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976–82	1982–83	1976–83
AGRICULTURAL SCIENCES:											
TOTAL, ALL SOURCES	9,040	9,296	9,259	9,371	9,591	9,630	9,500	9,397	.8	-1.1	.6
FEDERAL, TOTAL	1,623	1,671	1,759	1,752	1,778	1,710	1,654	1,510	.3	-8.7	-1.0
DEPT OF DEFENSE	22	15	0	16	11	11	8	15	-15.5	87.5	-5.3
DEPT OF HHS, TOTAL	83	69	85	104	117	57	37	23	-12.6	-37.8	-16.8
NIH	58	50	43	69	103	51	32	17	-9.4	-46.9	-16.1
OTHER HHS	25	19	42	35	14	6	5	6	-23.5	20.0	-18.4
NSF	105	76	90	74	82	70	71	61	-6.3	-14.1	-7.5
ALL OTHER FEDERAL	1,413	1,511	1,584	1,558	1,568	1,572	1,538	1,411	1.4	-8.3	*
INSTITUTIONAL SUPPORT	3,086	3,144	3,185	3,403	3,359	3,448	3,444	3,576	1.8	3.8	2.1
OTHER OUTSIDE SUPPORT, TOTAL	1,770	1,828	1,804	1,814	2,023	2,116	2,008	2,090	2.1	4.1	2.4
ALL OTHER U.S.	799	876	1,804	804	910	931	865	943	1.3	9.0	2.4
FOREIGN	971	952	0	1,010	1,113	1,185	1,143	1,147	2.8	.3	2.4
SELF-SUPPORT	2,561	2,653	2,511	2,402	2,431	2,356	2,394	2,221	-1.1	-7.2	-2.0
BIOLOGICAL SCIENCES:											
TOTAL, ALL SOURCES	35,624	36,228	35,974	35,837	35,317	35,454	35,226	35,263	-.2	.1	-.1
FEDERAL, TOTAL	9,799	9,953	10,171	10,835	10,725	10,505	10,055	10,182	.4	1.3	.5
DEPT OF DEFENSE	145	134	0	122	162	117	122	242	-2.8	98.4	7.6
DEPT OF HHS, TOTAL	6,799	6,902	7,079	7,589	7,250	7,208	6,944	7,086	.4	2.0	.6
NIH	6,294	6,450	6,554	7,022	6,848	6,813	6,622	6,776	.9	2.3	1.1
OTHER HHS	505	452	525	567	402	395	322	310	-7.2	-3.7	-6.7
NSF	1,045	1,136	1,203	1,145	1,173	1,091	1,078	1,049	.5	-2.7	.1
ALL OTHER FEDERAL	1,810	1,781	1,889	1,979	2,140	2,089	1,911	1,805	.9	-5.5	*
INSTITUTIONAL SUPPORT	14,593	15,157	14,884	15,027	15,546	15,674	15,796	15,878	1.3	.5	1.2
OTHER OUTSIDE SUPPORT, TOTAL	2,551	2,537	2,761	2,879	2,731	2,746	3,053	3,171	3.0	3.9	3.2
ALL OTHER U.S.	1,766	1,674	2,761	1,788	1,746	1,673	1,965	2,035	1.8	3.6	2.0
FOREIGN	785	863	0	1,091	985	1,073	1,088	1,136	5.6	4.4	5.4
SELF-SUPPORT	8,681	8,581	8,158	7,096	6,815	6,529	6,322	6,032	-5.1	-4.6	-5.1
HEALTH SCIENCES:											
TOTAL, ALL SOURCES	17,239	18,779	19,982	21,263	22,303	22,111	20,927	20,525	3.3	-1.9	2.5
FEDERAL, TOTAL	6,343	7,317	7,690	8,025	8,184	7,653	6,120	5,529	-.6	-9.7	-1.9
DEPT OF DEFENSE	134	180	0	168	164	182	191	253	6.1	32.5	9.5
DEPT OF HHS, TOTAL	5,606	6,400	6,706	7,127	6,130	5,578	4,693	4,085	-2.9	-13.0	-4.4
NIH	1,072	893	879	892	879	1,071	1,230	1,166	2.3	-5.2	1.2
OTHER HHS	4,534	5,507	5,827	6,235	5,251	4,507	3,463	2,919	-4.4	-15.7	-6.1
NSF	39	40	43	42	42	28	34	29	-2.3	-14.7	-4.1
ALL OTHER FEDERAL	564	697	941	688	1,848	1,865	1,202	1,162	13.4	-3.3	10.9
INSTITUTIONAL SUPPORT	3,215	3,434	3,542	3,983	4,437	4,314	4,612	4,689	6.2	1.7	5.5
OTHER OUTSIDE SUPPORT, TOTAL	887	983	1,138	1,224	1,197	1,257	1,270	1,555	6.2	22.4	8.4
ALL OTHER U.S.	610	629	1,138	748	718	820	835	1,088	5.4	30.3	8.6
FOREIGN	277	354	0	476	479	437	435	467	7.8	7.4	7.7
SELF-SUPPORT	6,794	7,045	7,612	8,031	8,485	8,887	8,925	8,752	4.7	-1.9	3.7
PSYCHOLOGY:											
TOTAL, ALL SOURCES	21,482	21,266	20,711	20,737	21,580	21,544	21,103	21,327	-.3	1.1	-.1
FEDERAL, TOTAL	4,076	3,936	3,936	3,438	3,139	2,895	2,283	1,982	-9.2	-13.2	-9.8
DEPT OF DEFENSE	140	157	0	150	147	139	114	135	-3.4	18.4	-.5
DEPT OF HHS, TOTAL	2,976	2,825	2,908	2,481	1,874	1,633	1,300	1,004	-12.9	-22.8	-14.4
NIH	1,267	1,177	1,083	1,075	1,010	898	693	554	-9.6	-15.7	-10.5
OTHER HHS	1,709	1,648	1,825	1,406	862	735	607	420	-15.8	-30.8	-18.2
NSF	212	226	222	254	280	243	206	192	-.5	-6.8	-1.4
ALL OTHER FEDERAL	748	728	806	553	910	880	663	651	-2.0	-1.8	-2.0
INSTITUTIONAL SUPPORT	7,363	7,515	7,444	7,465	7,869	8,614	8,557	8,794	2.5	2.8	2.6
OTHER OUTSIDE SUPPORT, TOTAL	1,274	1,293	1,603	1,352	1,438	1,505	1,377	1,315	1.3	-4.5	.5
ALL OTHER U.S.	1,190	1,187	1,603	1,239	1,322	1,430	1,304	1,250	1.5	-4.1	.7
FOREIGN	84	106	0	113	116	75	73	65	-2.3	-11.0	-3.6
SELF-SUPPORT	8,769	8,522	7,728	8,482	9,084	8,530	8,886	9,236	.2	3.9	.7
SOCIAL SCIENCES:											
TOTAL, ALL SOURCES	48,651	49,433	48,409	50,680	51,518	51,402	49,211	48,096	.2	-2.3	-.2
FEDERAL, TOTAL	5,578	5,898	5,680	5,551	5,211	4,621	3,862	3,595	-5.9	-6.9	-6.1
DEPT OF DEFENSE	285	356	0	314	346	263	271	335	-.8	23.6	2.3
DEPT OF HHS, TOTAL	2,225	2,239	2,128	2,296	1,483	1,301	917	607	-13.7	-33.8	-16.9
NIH	575	447	344	543	546	507	367	317	-7.2	-13.6	-8.2
OTHER HHS	1,650	1,792	1,784	1,753	937	794	550	290	-16.7	-47.3	-22.0
NSF	564	534	512	532	544	455	350	345	-7.6	-1.4	-6.8
ALL OTHER FEDERAL	2,504	2,769	3,040	2,409	2,838	2,602	2,324	2,308	-1.2	-.7	-1.2
INSTITUTIONAL SUPPORT	16,521	16,766	16,876	18,467	18,993	19,500	19,582	19,555	2.9	-.1	2.4
OTHER OUTSIDE SUPPORT, TOTAL	3,476	3,528	3,573	3,822	4,055	4,207	4,140	4,187	3.0	1.1	2.7
ALL OTHER U.S.	2,128	1,938	3,573	2,057	1,928	1,827	1,839	1,938	-2.4	5.4	-1.3
FOREIGN	1,348	1,590	0	1,765	2,127	2,380	2,301	2,249	9.3	-2.3	7.6
SELF-SUPPORT	23,076	23,241	22,280	22,840	23,259	23,074	21,627	20,759	-1.1	-4.0	-1.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-15. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY FEDERAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976–83

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976–82	1982–83	1976–83
TOTAL, ALL FIELDS	48,594	50,378	51,269	52,871	52,939	50,897	47,206	47,402	-.5	0.4	-.4
ENGINEERING	10,468	10,537	10,451	10,757	11,107	10,923	11,005	11,924	.8	8.4	1.9
AEROSPACE	514	584	495	522	573	702	760	878	6.7	15.5	7.9
AGRICULTURAL	95	161	157	133	131	147	135	145	6.0	7.4	6.2
BIOMEDICAL	273	213	232	286	248	221	229	252	-2.9	10.0	-1.1
CHEMICAL	1,095	1,160	1,168	1,187	1,278	1,290	1,282	1,361	2.7	6.2	3.2
CIVIL	1,570	1,509	1,458	1,468	1,605	1,352	1,326	1,346	-2.8	1.5	-2.2
ELECTRICAL	2,247	2,392	2,394	2,415	2,575	2,490	2,645	2,933	2.8	10.9	3.9
ENGINEERING SCIENCE	543	512	543	577	604	626	598	679	1.6	13.5	3.2
INDUSTRIAL	593	509	482	595	425	439	350	421	-8.4	20.3	-4.8
MECHANICAL	1,447	1,380	1,346	1,410	1,389	1,413	1,413	1,561	-.4	10.5	1.1
METALLURGICAL/MATERIALS	936	955	999	1,140	1,130	1,201	1,136	1,194	3.3	5.1	3.5
MINING	185	191	167	164	162	168	97	83	-10.2	-14.4	-10.8
NUCLEAR	359	324	377	284	271	273	299	364	-3.0	21.7	.2
PETROLEUM	56	73	60	67	71	53	58	46	.6	-20.7	-2.8
ENGINEERING, N.E.C.	555	574	573	509	645	548	677	661	3.4	-2.4	2.5
PHYSICAL SCIENCES	6,366	6,574	6,943	7,418	7,655	7,899	7,644	8,047	3.1	5.3	3.4
ASTRONOMY	282	260	281	256	264	254	218	255	-4.2	17.0	-1.4
CHEMISTRY	3,242	3,366	3,650	3,975	4,162	4,246	4,262	4,375	4.7	2.7	4.4
PHYSICS	2,834	2,928	3,002	3,184	3,209	3,392	3,159	3,407	1.8	7.9	2.7
PHYSICAL SCIENCES, N.E.C.	8	20	10	3	20	7	5	10	-7.5	100.0	3.2
ENVIRONMENTAL SCIENCES	2,916	3,055	3,168	3,468	3,369	2,965	2,808	2,839	-.6	1.1	-.4
ATMOSPHERIC SCIENCES	524	538	496	516	507	475	483	492	-1.3	1.9	-.9
GEOSCIENCES	1,425	1,558	1,600	1,828	1,834	1,477	1,393	1,484	-.4	6.5	.6
OCEANOGRAPHY	658	667	727	773	732	694	684	649	.6	-5.1	-.2
ENVIRONMENTAL SCIENCES, N.E.C.	309	292	345	348	296	319	248	214	-3.6	-13.7	-5.1
MATHEMATICAL/COMPUTER SCIENCES	1,425	1,437	1,471	1,630	1,721	1,726	1,775	1,794	3.7	1.1	3.3
COMPUTER SCIENCE	669	675	699	775	879	944	973	1,045	6.4	7.4	6.6
MATHEMATICS AND APPLIED MATHEMATICS	574	560	594	697	697	678	681	648	2.9	-4.8	1.7
STATISTICS	182	202	178	158	145	104	121	101	-6.4	-16.5	-8.1
LIFE SCIENCES	17,765	18,941	19,620	20,612	20,687	19,868	17,829	17,221	.1	-3.4	-.4
AGRICULTURAL SCIENCES	1,623	1,671	1,759	1,752	1,778	1,710	1,654	1,510	.3	-8.7	-1.0
BIOLOGICAL SCIENCES	9,799	9,953	10,171	10,835	10,725	10,505	10,055	10,182	.4	1.3	.5
ANATOMY	243	237	240	246	236	231	192	203	-3.9	5.7	-2.5
BIOCHEMISTRY	1,679	1,772	1,731	1,807	1,789	1,816	1,869	2,003	1.8	7.2	2.6
BIOLOGY	1,560	1,547	1,660	1,806	1,723	1,659	1,584	1,655	.3	4.5	.8
BIOMETRY/EPIDEMIOLOGY	287	307	378	354	398	418	346	344	3.2	-1.7	2.5
BIOPHYSICS	345	332	305	309	270	221	210	194	-7.9	11.4	-5.4
BOTANY	527	578	572	611	621	542	575	542	1.5	-11.0	-.4
CELL BIOLOGY	328	417	486	528	566	604	644	624	11.9	-3.1	9.6
ECOLOGY	166	164	229	179	200	171	157	163	-.9	3.8	-.3
ENTOMOLOGY/PARASITOLOGY	319	303	271	271	350	312	265	263	-3.0	-.8	-2.7
GENETICS	348	414	398	409	405	366	375	405	1.3	8.0	2.2
MICROBIOLOGY	1,217	1,175	1,189	1,299	1,299	1,189	1,167	1,228	-.7	5.2	.1
NUTRITION	566	591	552	591	613	565	525	464	-1.2	-11.6	-2.8
PATHOLOGY	213	256	235	296	310	329	315	338	.1	7.3	1.1
PHARMACOLOGY	756	753	790	872	818	844	797	773	.9	-3.0	.3
PHYSIOLOGY	635	642	632	646	615	650	537	514	-2.8	-4.3	-3.0
ZOOLOGY	440	387	399	450	359	372	303	282	-6.0	-6.9	-6.2
BIOSCIENCES, N.E.C.	70	81	104	161	153	216	194	181	18.5	-6.7	14.5
HEALTH SCIENCES	8,343	7,317	7,690	8,025	8,184	7,653	6,120	5,529	-.6	-9.7	-1.9
ANESTHESIOLOGY	2	0	0	0	0	0	0	0	-100.0	**	-100.0
CANCER/ONCOLOGY	54	63	61	49	48	6	63	69	2.6	9.5	3.6
CARDIOLOGY	0	2	2	4	4	0	3	3	**	.0	**
DENTISTRY	103	122	128	134	123	80	76	67	-4.9	-11.8	-6.0
ENDOCRINOLOGY	12	10	10	13	20	23	22	26	10.6	18.2	11.7
GASTROENTEROLOGY	6	5	1	0	0	0	1	0	-25.8	-100.0	-100.0
HEMATOLOGY	0	0	1	0	0	3	1	2	**	100.0	**
NEUROLOGY	145	129	148	146	137	115	114	132	-3.9	15.8	-1.3
NURSING	2,687	3,642	3,699	3,640	3,795	3,830	3,175	2,797	2.8	-11.9	.6
OBSTETRICS/GYNECOLOGY	23	17	12	18	2	2	8	9	-16.1	12.5	-12.5
OPHTHALMOLOGY	6	6	1	2	10	11	2	0	-16.7	-100.0	-100.0
OTORHINOLARYNGOLOGY	23	7	6	1	0	1	0	0	-100.0	**	-100.0
PEDIATRICS	62	43	41	58	56	74	40	49	-7.0	22.5	-3.3
PHARMACEUTICAL SCIENCES	329	354	306	302	299	348	291	293	-2.0	.7	-1.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,363	1,231	1,643	1,940	1,964	1,764	1,163	932	-2.6	-19.9	-5.3
PSYCHIATRY	29	41	30	51	16	17	14	17	-11.4	21.4	-7.3
PULMONARY DISEASE	0	0	0	0	2	3	4	2	**	-50.0	**
RADIOLOGY	108	97	70	68	74	74	86	47	-3.7	-45.3	-11.2
SPEECH PATHOLOGY/AUDIOLOGY	807	891	814	833	782	655	590	579	-5.1	-1.9	-4.6
SURGERY	30	19	14	1	7	16	7	17	-21.5	142.9	-7.8
VETERINARY SCIENCES	58	74	64	79	72	68	53	46	-1.5	-13.2	-3.3
CLINICAL MEDICINE, N.E.C.	29	43	30	46	88	43	85	91	19.6	7.1	17.7
HEALTH RELATED, N.E.C.	467	521	609	641	685	520	322	351	-6.0	9.0	-4.0
PSYCHOLOGY	4,076	3,936	3,936	3,438	3,189	2,895	2,283	1,982	-9.2	-13.2	-9.8
SOCIAL SCIENCES	5,578	5,898	5,680	5,551	5,211	4,621	3,862	3,595	-5.9	-6.9	-6.1
AGRICULTURAL ECONOMICS	436	509	525	445	452	478	387	421	-2.0	8.8	-.5
ANTHROPOLOGY	582	548	512	464	431	407	332	292	-8.9	-12.0	-9.4
ECONOMICS (EXCEPT AGRICULTURAL)	546	590	518	539	590	436	298	295	-9.6	-1.0	-8.4
GEOGRAPHY	176	165	154	124	128	108	127	100	-5.3	-21.3	-7.8
HISTORY AND PHILOSOPHY OF SCIENCE	18	14	8	15	19	7	11	12	-7.9	9.1	-5.6
LINGUISTICS	189	146	126	150	139	174	239	296	4.0	23.8	6.6
POLITICAL SCIENCE	789	1,108	1,089	985	871	818	788	762	*	-3.3	-.5
SOCIOLOGY	909	795	735	702	652	655	451	373	-11.0	-17.3	-11.9
SOCIOLOGY/ANTHROPOLOGY	70	73	49	49	64	24	30	32	-13.2	6.7	-10.6
SOCIAL SCIENCES, N.E.C.	1,863	1,950	1,964	2,078	1,865	1,514	1,199	1,012	-7.1	-15.6	-8.3

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-16. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY INSTITUTIONAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976–83

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976–82	1982–83	1976–83
TOTAL, ALL FIELDS	79,217	80,404	79,727	82,813	86,715	90,261	93,244	96,188	2.8	3.2	2.8
ENGINEERING	10,447	10,539	10,593	11,532	12,634	14,100	15,169	16,273	6.4	7.3	6.5
AEROSPACE	340	289	336	331	403	369	346	420	.3	21.4	3.1
AGRICULTURAL	198	200	212	252	216	265	290	342	6.6	17.9	8.1
BIOMEDICAL	182	190	184	217	234	263	263	262	6.3	-.4	5.3
CHEMICAL	1,136	1,193	1,240	1,420	1,426	1,703	1,936	2,037	9.3	5.2	8.7
CIVIL	1,951	2,140	2,158	2,220	2,473	2,603	2,853	2,994	6.5	4.9	6.3
ELECTRICAL	2,444	2,320	2,355	2,598	2,894	3,307	3,561	3,842	6.5	7.9	6.7
ENGINEERING SCIENCE	362	392	397	297	309	333	379	388	.8	2.4	1.0
INDUSTRIAL	920	867	826	930	976	1,083	1,183	1,114	4.3	-5.8	2.8
MECHANICAL	1,579	1,584	1,599	1,765	1,996	2,184	2,426	2,835	7.4	16.9	8.7
METALLURGICAL/MATERIALS	364	391	403	383	494	531	552	559	7.2	1.3	6.3
MINING	63	62	75	63	68	59	91	126	6.3	38.5	10.4
NUCLEAR	363	380	246	365	325	321	281	280	-4.2	-.4	-3.6
PETROLEUM	46	60	61	90	127	120	116	166	16.7	43.1	20.1
ENGINEERING, N.E.C.	499	471	493	601	693	879	892	908	10.2	1.8	8.9
PHYSICAL SCIENCES	12,202	12,223	11,780	11,481	11,928	11,924	12,581	13,164	.5	4.6	1.1
ASTRONOMY	249	247	226	284	258	244	290	278	2.6	-4.1	1.6
CHEMISTRY	7,536	7,615	7,432	7,201	7,380	7,340	7,693	8,299	.3	7.9	1.4
PHYSICS	4,379	4,329	4,082	3,969	4,256	4,304	4,563	4,560	.7	-.1	.6
PHYSICAL SCIENCES, N.E.C.	38	32	40	27	34	36	35	27	-1.4	-22.9	-4.8
ENVIRONMENTAL SCIENCES	3,480	3,584	3,500	3,509	3,648	3,916	4,097	4,061	2.8	-.9	2.2
ATMOSPHERIC SCIENCES	122	126	121	111	121	115	129	151	-1.6	17.1	.9
GEOSCIENCES	2,595	2,586	2,512	2,587	2,679	2,887	3,091	3,088	3.0	-.1	2.5
OCEANOGRAPHY	372	421	363	330	343	396	411	363	1.7	-11.7	-.3
ENVIRONMENTAL SCIENCES, N.E.C.	371	451	504	481	505	518	466	459	3.9	-1.5	3.1
MATHEMATICAL/COMPUTER SCIENCES	8,310	8,042	7,923	7,946	8,301	8,771	9,406	10,198	2.1	8.4	3.0
COMPUTER SCIENCE	1,498	1,500	1,511	1,691	1,961	2,314	2,579	3,072	9.5	19.1	10.8
MATHEMATICS AND APPLIED MATHEMATICS	6,012	5,756	5,586	5,401	5,422	5,515	5,911	6,135	-.3	3.8	.3
STATISTICS	800	786	826	854	918	942	916	991	2.3	8.2	3.1
LIFE SCIENCES	20,894	21,735	21,611	22,413	23,342	23,436	23,852	24,143	2.2	1.2	2.1
AGRICULTURAL SCIENCES	3,086	3,144	3,185	3,403	3,359	3,448	3,444	3,576	1.8	3.8	2.1
BIOLOGICAL SCIENCES	14,393	15,157	14,884	15,027	15,546	15,674	15,796	15,878	1.3	.5	1.2
ANATOMY	482	529	496	568	520	527	527	512	1.5	-2.8	.9
BIOCHEMISTRY	1,183	1,213	1,270	1,278	1,353	1,385	1,365	1,437	2.4	5.3	2.8
BIOLOGY	4,256	4,337	4,159	4,068	4,249	4,075	4,090	4,170	-.7	2.0	-.3
BIOMETRY/EPIDEMIOLOGY	105	159	162	167	167	213	251	201	15.6	-19.9	9.7
BIOPHYSICS	124	116	85	96	95	105	105	103	-2.7	-1.9	-2.6
BOTANY	1,685	1,691	1,689	1,611	1,574	1,609	1,652	1,616	-.3	-2.2	-.6
CELL BIOLOGY	299	291	253	246	277	300	377	369	3.9	-2.1	3.1
ECOLOGY	404	432	456	435	478	458	439	427	1.4	-2.7	.8
ENTOMOLOGY/PARASITOLOGY	545	558	658	686	712	643	616	607	2.1	-1.5	1.6
GENETICS	214	237	268	245	266	291	302	285	5.9	-5.6	4.2
MICROBIOLOGY	1,391	1,522	1,370	1,366	1,396	1,531	1,533	1,611	1.6	5.1	2.1
NUTRITION	703	880	841	879	943	985	943	940	5.0	-.3	4.2
PATHOLOGY	265	284	307	299	326	318	315	341	2.9	8.3	3.7
PHARMACOLOGY	485	489	552	612	658	713	749	755	7.5	.8	6.5
PHYSIOLOGY	741	716	683	748	783	756	746	788	.1	5.6	.9
ZOOLOGY	1,542	1,523	1,433	1,463	1,459	1,443	1,425	1,348	-1.3	-5.4	-1.9
BIOSCIENCES, N.E.C.	169	180	202	260	290	322	361	368	13.5	1.9	11.8
HEALTH SCIENCES	3,215	3,434	3,542	3,983	4,437	4,314	4,612	4,689	6.2	1.7	5.5
ANESTHESIOLOGY	3	2	6	16	13	6	5	1	8.9	-80.0	-14.5
CANCER/ONCOLOGY	2	1	1	1	2	0	0	2	-100.0	**	.0
CARDIOLOGY	0	1	1	0	10	3	0	0	**	**	**
DENTISTRY	252	281	251	287	304	274	297	293	2.8	-1.3	2.2
ENDOCRINOLOGY	14	7	9	19	18	11	12	19	-2.5	58.3	4.5
GASTROENTEROLOGY	2	2	4	0	0	2	0	0	-100.0	**	-100.0
HEMATOLOGY	1	5	5	12	7	6	5	7	30.6	40.0	32.1
NEUROLOGY	31	49	36	54	47	39	45	69	6.4	53.3	12.1
NURSING	193	266	292	482	545	477	600	759	20.8	26.5	21.7
OBSTETRICS/GYNECOLOGY	14	5	6	6	3	5	3	2	-22.6	-33.3	-24.3
OPHTHALMOLOGY	2	2	1	3	4	6	5	4	16.5	-20.0	10.4
OTORHINOLARYNGOLOGY	25	20	18	12	13	10	11	5	-12.8	-54.5	-20.5
PEDIATRICS	44	25	13	17	27	33	30	21	-6.2	-30.0	-10.0
PHARMACEUTICAL SCIENCES	721	746	754	846	857	835	854	788	2.9	-7.7	1.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	335	293	336	363	395	510	554	530	8.7	-4.3	6.8
PSYCHIATRY	23	41	48	24	8	11	35	42	7.2	20.0	9.0
PULMONARY DISEASE	0	3	7	1	11	5	4	0	**	-100.0	**
RADIOLOGY	94	82	69	69	59	72	53	49	-9.1	-7.5	-8.9
SPEECH PATHOLOGY/AUDIOLOGY	972	1,020	1,066	1,031	1,211	1,165	1,286	1,328	4.8	3.3	4.6
SURGERY	80	68	70	48	57	56	65	41	-3.4	-36.9	-9.1
VETERINARY SCIENCES	130	156	161	178	180	164	178	189	5.4	6.2	5.5
CLINICAL MEDICINE, N.E.C.	93	105	77	115	112	130	125	85	5.1	-32.0	-1.3
HEALTH RELATED, N.E.C.	184	254	311	396	554	494	445	455	15.9	2.2	13.8
PSYCHOLOGY	7,363	7,515	7,444	7,465	7,869	8,614	8,557	8,794	2.5	2.8	2.6
SOCIAL SCIENCES	16,521	16,766	16,876	18,467	18,993	19,500	19,582	19,555	2.9	-.1	2.4
AGRICULTURAL ECONOMICS	762	719	663	752	760	709	714	638	-1.1	-10.6	-2.5
ANTHROPOLOGY	1,601	1,587	1,579	1,603	1,614	1,580	1,675	1,633	.8	-2.5	.3
ECONOMICS (EXCEPT AGRICULTURAL)	3,617	3,422	3,682	3,859	4,113	4,385	4,498	4,472	3.7	-.6	3.1
GEOGRAPHY	1,032	1,072	1,049	1,049	1,113	1,166	1,162	1,132	2.0	-2.6	1.3
HISTORY AND PHILOSOPHY OF SCIENCE	144	135	130	122	132	120	136	125	-.9	-8.1	-2.0
LINGUISTICS	875	912	979	1,184	1,033	1,043	987	1,082	2.0	9.6	3.1
POLITICAL SCIENCE	3,534	3,586	3,619	4,250	4,334	4,605	4,366	4,372	3.6	.1	3.1
SOCIOLOGY	2,552	2,554	2,380	2,436	2,505	2,597	2,468	2,445	-.6	-.9	-.6
SOCIOLOGY/ANTHROPOLOGY	329	336	335	342	285	323	332	311	.4	-6.3	-.6
SOCIAL SCIENCES, N.E.C.	2,077	2,244	2,460	2,870	3,104	2,974	3,244	3,345	7.7	3.1	7.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-17. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY OTHER OUTSIDE SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	17,680	18,229	19,265	20,039	21,066	22,382	23,630	24,415	5.0	3.3	4.7
ENGINEERING	4,780	5,088	5,312	5,557	6,152	6,882	7,637	7,968	8.1	4.3	7.6
AEROSPACE	128	138	140	109	183	222	203	235	8.0	15.8	9.1
AGRICULTURAL	136	145	155	160	207	149	189	146	5.6	-22.8	1.0
BIOMEDICAL	33	38	47	72	76	82	115	101	23.1	-12.2	17.3
CHEMICAL	734	751	715	821	875	982	1,171	1,222	8.1	4.4	7.6
CIVIL	778	802	833	899	964	1,204	1,162	1,317	6.9	13.3	9.8
ELECTRICAL	908	1,063	1,182	1,222	1,369	1,593	1,690	1,894	10.9	12.1	11.1
ENGINEERING SCIENCE	78	101	115	64	105	106	122	140	7.7	14.8	8.7
INDUSTRIAL	404	374	485	430	448	340	420	329	.6	-21.7	-2.9
MECHANICAL	517	625	688	836	830	968	1,099	1,157	13.4	4.8	12.1
METALLURGICAL/MATERIALS	363	375	329	332	415	453	509	583	5.8	14.5	7.0
MINING	84	63	44	33	57	117	107	101	4.1	-5.6	2.7
NUCLEAR	226	223	246	228	251	243	257	209	2.2	-18.7	-1.1
PETROLEUM	169	142	128	123	114	134	187	183	1.7	-2.1	1.1
ENGINEERING, N.E.C.	222	248	205	228	258	289	406	356	10.6	-12.3	7.0
PHYSICAL SCIENCES	1,327	1,346	1,348	1,478	1,307	1,416	1,740	1,677	4.6	-3.6	3.4
ASTRONOMY	34	43	29	21	34	32	45	27	4.8	-40.0	-3.2
CHEMISTRY	812	856	866	967	845	954	1,198	1,076	6.7	-10.2	4.1
PHYSICS	473	446	449	485	425	429	494	569	.7	15.2	2.7
PHYSICAL SCIENCES, N.E.C.	8	1	4	5	3	1	3	5	-15.1	66.7	-4.5
ENVIRONMENTAL SCIENCES	765	796	874	865	1,042	1,129	1,199	1,256	7.8	4.8	7.3
ATMOSPHERIC SCIENCES	50	35	35	36	35	46	46	57	-1.4	23.9	1.9
GEOSCIENCES	507	564	611	592	738	783	832	887	8.6	6.6	8.3
OCEANOGRAPHY	116	88	102	130	140	158	172	196	6.8	14.0	7.8
ENVIRONMENTAL SCIENCES, N.E.C.	92	109	126	107	129	142	149	116	8.4	-22.1	3.4
MATHEMATICAL/COMPUTER SCIENCES	850	830	852	1,048	1,121	1,124	1,206	1,196	6.0	-.8	5.0
COMPUTER SCIENCE	250	260	359	475	602	598	670	689	17.9	2.8	15.6
MATHEMATICS AND APPLIED MATHEMATICS	447	437	377	433	384	414	399	405	-1.9	1.5	-1.4
STATISTICS	153	133	116	140	135	112	137	102	-1.8	-25.5	-5.6
LIFE SCIENCES	5,208	5,348	5,703	5,917	5,951	6,119	6,331	6,816	3.3	7.7	3.9
AGRICULTURAL SCIENCES	1,770	1,828	1,804	1,814	2,023	2,116	2,008	2,090	2.1	4.1	2.4
BIOLOGICAL SCIENCES	2,651	2,537	2,761	2,879	2,731	2,746	3,053	3,171	3.0	3.9	3.2
ANATOMY	37	43	59	54	55	44	36	49	-.5	36.1	4.1
BIOCHEMISTRY	278	244	248	228	250	252	285	337	.4	18.2	2.8
BIOLOGY	412	422	392	364	286	287	311	386	-4.6	24.1	-.9
BIOMETRY/EPIDEMIOLOGY	58	47	55	87	91	103	96	107	8.8	11.5	9.1
BIOPHYSICS	15	35	38	20	42	21	22	26	6.6	18.2	8.2
BOTANY	380	388	420	470	457	447	487	466	4.2	-4.3	3.0
CELL BIOLOGY	24	22	26	37	29	33	49	83	12.6	69.4	19.4
ECOLOGY	41	49	62	54	67	68	101	61	16.2	-39.6	5.8
ENTOMOLOGY/PARASITOLOGY	211	217	238	283	247	297	276	255	4.6	-7.6	2.7
GENETICS	61	89	64	46	82	59	85	80	5.7	-5.9	3.9
MICROBIOLOGY	221	199	253	224	233	236	305	277	5.5	-9.2	3.3
NUTRITION	367	363	417	522	451	394	451	464	3.5	2.9	3.4
PATHOLOGY	104	77	85	122	101	139	139	142	5.0	2.2	4.5
PHARMACOLOGY	80	126	153	136	125	148	170	186	13.4	9.4	12.8
PHYSIOLOGY	97	95	113	93	81	108	91	97	-1.1	6.6	.0
ZOOLOGY	147	105	111	75	73	69	96	112	-6.9	16.7	-3.8
BIOSCIENCES, N.E.C.	18	17	27	64	61	41	53	43	19.7	-18.9	13.2
HEALTH SCIENCES	887	983	1,138	1,224	1,197	1,257	1,270	1,558	6.2	22.4	8.4
ANESTHESIOLOGY	0	1	0	0	0	5	0	0	**	**	**
CANCER/ONCOLOGY	4	7	2	3	1	0	2	2	-10.9	.0	-9.4
CARDIOLOGY	0	0	0	0	3	0	0	0	**	**	**
DENTISTRY	93	67	70	95	85	55	62	61	-6.5	-1.6	-5.8
ENDOCRINOLOGY	0	1	0	6	5	5	11	5	**	-54.5	**
GASTROENTEROLOGY	0	1	0	0	0	1	0	0	**	**	**
HEMATOLOGY	0	0	1	0	1	0	0	0	**	**	**
NEUROLOGY	12	23	22	13	17	15	20	37	8.9	85.0	17.5
NURSING	62	141	203	240	180	134	179	237	19.3	32.4	21.1
OBSTETRICS/GYNECOLOGY	10	1	0	7	0	0	1	2	-31.9	100.0	-20.5
OPHTHALMOLOGY	0	1	0	0	1	2	0	1	**	**	**
OTORHINOLARYNGOLOGY	5	2	6	0	0	0	0	0	-100.0	**	-100.0
PEDIATRICS	7	6	3	5	11	15	19	19	18.1	.0	15.3
PHARMACEUTICAL SCIENCES	156	150	189	165	180	226	232	321	6.8	38.4	10.9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	219	207	265	246	316	297	306	379	5.7	23.9	8.2
PSYCHIATRY	12	5	1	17	21	11	3	14	-20.6	366.7	2.2
PULMONARY DISEASE	0	0	3	0	2	1	2	0	**	-100.0	**
RADIOLOGY	20	21	16	20	19	15	18	20	-1.7	11.1	.0
SPEECH PATHOLOGY/AUDIOLOGY	85	116	161	155	130	210	145	183	9.3	26.2	11.6
SURGERY	11	7	10	13	17	9	10	9	-1.6	-10.0	-2.8
VETERINARY SCIENCES	69	82	75	89	85	66	62	55	-1.8	-11.3	-2.2
CLINICAL MEDICINE, N.E.C.	20	20	10	16	22	18	32	40	8.1	25.0	10.4
HEALTH RELATED, N.E.C.	102	124	98	134	100	172	166	170	8.5	2.4	7.6
PSYCHOLOGY	1,274	1,293	1,603	1,352	1,438	1,505	1,377	1,315	1.3	-4.5	.5
SOCIAL SCIENCES	3,476	3,528	3,573	3,822	4,055	4,207	4,140	4,187	3.0	1.1	2.7
AGRICULTURAL ECONOMICS	229	321	323	368	373	358	370	367	8.3	-.8	7.0
ANTHROPOLOGY	216	244	194	210	192	182	137	177	-7.3	29.2	-2.8
ECONOMICS (EXCEPT AGRICULTURAL)	980	915	941	995	982	1,029	928	1,015	-.9	9.4	.5
GEOGRAPHY	162	146	141	133	199	165	137	144	-2.9	5.1	-1.8
HISTORY OF SCIENCE	20	23	19	12	11	20	16	22	-5.2	37.5	.0
LINGUISTICS	111	122	135	224	163	202	192	212	9.6	10.4	9.7
POLITICAL SCIENCE	798	717	706	690	1,016	1,032	1,351	1,077	9.2	-20.3	4.4
SOCIOLOGY	391	422	345	384	359	322	391	394	.0	.8	.1
SOCIOLOGY/ANTHROPOLOGY	69	33	29	48	35	48	46	53	-4.5	15.2	-3.7
SOCIAL SCIENCES, N.E.C.	497	585	740	758	725	849	572	726	2.4	26.9	5.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-18. -- SELF-SUPPORTED FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	68,598	68,442	66,347	67,686	69,815	70,654	72,859	75,641	1.0	3.8	1.4
ENGINEERING	10,536	10,511	10,701	11,498	12,046	12,912	14,876	17,388	5.9	16.9	7.4
AEROSPACE	171	167	164	189	165	187	210	292	3.5	39.0	7.9
AGRICULTURAL	100	114	94	100	77	111	125	133	3.8	6.4	4.2
BIOMEDICAL	267	274	279	252	230	287	301	397	2.0	31.9	5.8
CHEMICAL	692	739	767	739	852	946	1,135	1,170	8.6	3.1	7.8
CIVIL	2,593	2,778	3,010	3,155	3,068	3,569	4,086	4,300	7.9	5.2	7.5
ELECTRICAL	2,464	2,561	2,403	2,616	2,895	2,766	3,381	4,174	5.4	23.5	7.8
ENGINEERING SCIENCE	152	106	116	115	113	139	153	132	.1	-13.7	-2.0
INDUSTRIAL	1,558	1,462	1,347	1,671	1,727	1,570	1,637	2,053	.8	25.4	4.0
MECHANICAL	1,318	1,186	1,235	1,326	1,515	1,772	2,190	2,651	8.8	21.1	10.5
METALLURGICAL/MATERIALS	190	220	230	265	197	251	256	350	5.1	36.7	9.1
MINING	68	42	41	32	31	28	56	94	-3.2	67.9	4.7
NUCLEAR	274	227	258	198	196	195	205	199	-4.7	-2.9	-4.5
PETROLEUM	52	26	79	56	49	83	109	212	13.1	94.5	22.2
ENGINEERING, N.E.C.	637	609	678	784	971	1,008	1,032	1,231	8.4	19.3	9.9
PHYSICAL SCIENCES	1,695	1,604	1,426	1,420	1,364	1,361	1,365	1,588	-3.5	16.3	-.9
ASTRONOMY	64	53	54	53	37	35	37	25	-8.7	-32.4	-12.6
CHEMISTRY	799	740	732	701	689	622	591	743	-4.9	25.7	-1.0
PHYSICS	814	787	632	655	629	689	727	811	-1.9	11.6	-.1
PHYSICAL SCIENCES, N.E.C.	18	24	8	11	9	15	10	9	-9.3	-10.0	-9.4
ENVIRONMENTAL SCIENCES	2,507	2,584	2,455	2,322	2,206	2,481	2,769	3,272	1.7	18.2	3.9
ATMOSPHERIC SCIENCES	98	104	101	76	83	103	113	78	2.4	-31.0	-3.2
GEOSCIENCES	1,579	1,597	1,644	1,546	1,501	1,695	1,969	2,449	3.7	24.4	6.5
OCEANOGRAPHY	322	333	299	255	314	341	284	339	-2.1	19.4	.7
ENVIRONMENTAL SCIENCES, N.E.C.	508	550	411	455	307	342	403	406	-3.8	.7	-3.2
MATHEMATICAL/COMPUTER SCIENCES	3,979	3,701	3,476	3,585	4,125	4,524	5,695	6,393	6.2	12.3	7.0
COMPUTER SCIENCE	1,866	1,761	1,857	2,132	2,458	2,609	3,686	4,452	12.0	20.8	13.2
MATHEMATICS AND APPLIED MATHEMATICS	1,762	1,590	1,345	1,195	1,356	1,532	1,617	1,578	-1.4	-2.4	-1.6
STATISTICS	351	350	274	258	311	383	392	363	1.9	-7.4	.5
LIFE SCIENCES	18,036	18,279	18,281	17,529	17,731	17,772	17,641	17,005	-.4	-3.6	-.8
AGRICULTURAL SCIENCES	2,561	2,653	2,511	2,402	2,431	2,356	2,394	2,221	-1.1	-7.2	-2.0
BIOLOGICAL SCIENCES	8,681	8,581	8,158	7,096	6,815	6,529	6,322	6,032	-5.1	-4.6	-5.1
ANATOMY	298	254	239	173	179	161	182	173	-7.9	-4.9	-7.5
BIOCHEMISTRY	367	379	451	336	325	296	313	238	-2.6	-24.0	-6.0
BIOLOGY	2,789	2,572	2,152	1,992	1,794	1,704	1,639	1,475	-8.5	-10.0	-8.7
BIOMETRY/EPIDEMIOLOGY	301	381	383	359	389	265	226	229	-4.7	1.3	-3.8
BIOPHYSICS	89	70	85	73	69	110	86	80	-.6	-7.0	-1.5
BOTANY	682	753	641	528	502	426	429	419	-7.4	-2.3	-6.7
CELL BIOLOGY	67	47	45	48	60	52	40	53	-8.2	32.5	-3.3
ECOLOGY	178	282	223	151	202	234	208	184	2.6	-11.5	.5
ENTOMOLOGY/PARASITOLOGY	341	311	313	223	216	200	183	180	-9.9	-1.6	-8.7
GENETICS	162	165	140	132	84	110	115	149	-5.6	29.6	-1.2
MICROBIOLOGY	745	727	670	597	631	506	494	528	-6.6	6.9	-4.8
NUTRITION	852	912	1,021	953	908	1,150	1,107	1,027	4.5	-7.2	2.7
PATHOLOGY	256	320	353	313	290	264	245	247	-.7	.8	-.5
PHARMACOLOGY	268	298	259	231	283	208	223	242	-3.0	8.5	-1.4
PHYSIOLOGY	496	457	450	405	374	410	431	393	-2.3	-8.8	-3.3
ZOOLOGY	703	574	589	417	363	343	294	316	-13.5	7.5	-10.8
BIOSCIENCES, N.E.C.	87	79	144	165	146	90	107	99	3.5	-7.5	1.9
HEALTH SCIENCES	6,794	7,045	7,612	8,031	8,485	8,887	8,925	8,752	4.7	-1.9	3.7
ANESTHESIOLOGY	0	0	1	2	0	5	14	26	**	85.7	**
CANCER/ONCOLOGY	7	4	1	5	3	47	4	0	-8.9	-100.0	-100.0
CARDIOLOGY	0	0	0	0	0	0	0	0	**	**	**
DENTISTRY	310	311	331	408	374	352	292	307	-1.0	5.1	-.1
ENDOCRINOLOGY	7	13	12	5	5	7	5	14	-5.5	180.0	10.4
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	**	**	**
HEMATOLOGY	2	2	2	2	0	0	0	0	-100.0	**	-100.0
NEUROLOGY	23	24	30	12	11	6	9	6	-14.5	-33.3	-17.5
NURSING	889	1,207	1,403	1,779	1,720	2,294	2,228	1,924	16.5	-13.6	11.7
OBSTETRICS/GYNECOLOGY	5	2	5	2	0	3	3	2	-8.2	-33.3	-12.3
OPHTHALMOLOGY	0	0	0	0	0	0	1	2	**	100.0	**
OTORHINOLARYNGOLOGY	6	15	12	0	1	0	0	0	-100.0	**	-100.0
PEDIATRICS	30	38	37	39	33	23	55	49	10.6	-10.9	7.3
PHARMACEUTICAL SCIENCES	216	327	310	291	304	263	313	326	6.4	4.2	6.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,356	1,313	1,590	1,742	1,838	1,872	2,006	2,080	6.7	3.7	6.3
PSYCHIATRY	50	40	38	28	16	18	16	7	-17.3	-56.3	-24.5
PULMONARY DISEASE	0	0	0	0	0	0	0	0	**	**	**
RADIOLOGY	48	70	58	63	81	76	51	53	1.0	3.9	1.4
SPEECH PATHOLOGY/AUDIOLOGY	2,798	2,553	2,568	2,372	2,583	2,401	2,458	2,349	-2.1	-4.4	-2.5
SURGERY	7	10	15	4	4	2	5	6	-5.5	20.0	-2.2
VETERINARY SCIENCES	64	67	71	77	45	52	63	47	-.3	-25.4	-4.3
CLINICAL MEDICINE, N.E.C.	40	50	54	49	49	35	48	77	3.1	60.4	9.8
HEALTH RELATED, N.E.C.	936	999	1,074	1,151	1,416	1,431	1,354	1,477	6.3	9.1	6.7
PSYCHOLOGY	8,769	8,522	7,728	8,482	9,084	8,530	8,886	9,236	.2	3.9	.7
SOCIAL SCIENCES	23,076	23,241	22,280	22,840	23,259	23,074	21,627	20,759	-1.1	-4.0	-1.5
AGRICULTURAL ECONOMICS	509	407	478	377	443	470	485	568	-.8	17.1	1.6
ANTHROPOLOGY	2,493	2,545	2,243	2,187	2,239	2,075	1,883	1,822	-4.6	-3.2	-4.4
ECONOMICS (EXCEPT AGRICULTURAL)	2,643	2,906	2,998	2,730	3,262	3,239	3,363	3,143	4.1	-6.5	2.5
GEOGRAPHY	798	650	680	570	609	607	551	639	-6.0	16.0	-3.1
HISTORY AND PHILOSOPHY OF SCIENCE	86	85	84	85	79	70	60	70	-5.8	16.7	-2.9
LINGUISTICS	973	719	636	691	899	832	727	726	-4.7	-.1	-4.1
POLITICAL SCIENCE	6,135	6,072	5,797	6,382	5,711	6,092	5,606	5,558	-1.5	-.9	-1.4
SOCIOLOGY	2,136	1,953	1,454	1,620	1,775	1,521	1,333	1,370	-7.6	2.8	-6.1
SOCIOLOGY/ANTHROPOLOGY	211	292	186	184	205	129	204	200	-.6	-2.0	-.8
SOCIAL SCIENCES, N.E.C.	7,092	7,612	7,724	8,014	8,037	8,039	7,415	6,663	.7	-10.1	-.9

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-19. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1976-83

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL AREAS:											
TOTAL, ALL SOURCES	156,251	157,768	155,983	160,065	165,047	167,067	169,837	175,349	1.4	3.2	1.7
FEDERAL, TOTAL	34,322	35,028	35,305	36,856	36,548	35,141	32,641	32,678	-.8	.1	-.7
DEPT OF DEFENSE	3,443	3,527	0	3,526	3,702	3,994	4,229	5,065	3.5	19.8	5.7
DEPT OF HHS, TOTAL	14,126	14,366	14,519	15,358	12,771	11,959	10,441	9,646	-4.9	-7.6	-5.3
NIH	7,253	6,869	6,602	7,287	7,215	7,195	6,678	6,555	-1.4	-1.8	-1.4
OTHER HHS	6,873	7,497	7,913	8,071	5,556	4,764	3,763	3,091	-9.6	-17.9	-10.8
NSF	5,454	5,603	5,584	5,810	5,817	5,717	5,804	6,021	1.0	3.7	[illegible]
ALL OTHER FEDERAL	11,299	11,532	15,206	12,162	14,258	13,471	12,117	11,946	1.2	-1.8	
INSTITUTIONAL SUPPORT	60,854	61,624	60,787	62,821	65,565	67,266	69,973	72,489	2.4	3.6	2.5
OTHER OUTSIDE SUPPORT, TOTAL	11,918	12,136	13,061	13,811	14,090	15,327	16,067	16,724	5.1	4.1	5.0
ALL OTHER U.S.	7,887	7,733	13,061	8,707	8,903	9,644	10,211	11,062	4.4	8.3	5.0
FOREIGN	4,031	4,403	0	5,104	5,187	5,683	5,856	5,662	6.4	-3.3	5.0
SELF-SUPPORT	49,157	48,980	46,830	46,577	48,844	49,333	51,156	53,458	.7	4.5	1.2
ENGINEERING:											
TOTAL, ALL SOURCES	25,015	25,357	25,249	26,839	28,982	31,013	33,922	37,124	5.2	9.4	5.8
FEDERAL, TOTAL	6,792	6,949	6,840	6,961	7,262	7,157	7,321	8,044	1.3	9.9	2.4
DEPT OF DEFENSE	1,841	1,892	0	1,848	1,973	2,135	2,450	2,884	4.9	17.7	6.6
DEPT OF HHS, TOTAL	576	567	608	577	335	288	251	328	-12.9	30.7	-7.7
NIH	308	250	265	223	234	213	201	277	-6.9	37.8	-1.5
OTHER HHS	268	317	343	354	101	75	50	51	-24.4	2.0	-21.1
NSF	1,445	1,456	1,339	1,386	1,352	1,301	1,441	1,528	*	6.0	.8
ALL OTHER FEDERAL	2,930	3,034	4,893	3,150	3,602	3,433	3,179	3,304	1.4	3.9	1.7
INSTITUTIONAL SUPPORT	7,615	7,750	7,634	8,357	9,205	10,274	11,087	11,881	6.5	7.2	6.6
OTHER OUTSIDE SUPPORT, TOTAL	2,748	2,841	3,084	3,281	3,644	4,080	4,658	4,820	9.2	3.5	8.4
ALL OTHER U.S.	1,913	1,862	3,084	2,141	2,466	2,867	3,262	3,537	9.3	8.4	9.2
FOREIGN	835	979	0	1,140	1,178	1,213	1,396	1,283	8.9	-8.1	6.3
SELF-SUPPORT	7,860	7,817	7,691	8,240	8,871	9,502	10,856	12,379	5.5	14.0	6.7
PHYSICAL SCIENCES:											
TOTAL, ALL SOURCES	15,300	15,399	15,217	15,460	15,793	16,050	16,722	17,578	1.5	5.1	2.0
FEDERAL, TOTAL	4,167	4,298	4,478	4,841	4,986	5,259	5,054	5,328	3.2	5.8	3.6
DEPT OF DEFENSE	322	394	0	428	432	498	458	572	6.0	24.9	8.6
DEPT OF HHS, TOTAL	906	883	880	1,057	1,083	1,060	991	1,014	1.5	2.3	1.6
NIH	824	781	771	926	1,023	967	912	920	1.7	.9	1.6
OTHER HHS	82	102	109	131	60	93	79	94	-.6	19.0	2.0
NSF	1,712	1,727	1,767	1,889	1,854	1,935	2,012	2,092	2.7	4.0	2.9
ALL OTHER FEDERAL	1,227	1,294	1,831	1,467	1,617	1,766	1,573	1,650	4.2	4.9	4.3
INSTITUTIONAL SUPPORT	8,917	9,019	8,732	8,493	8,860	8,754	9,377	9,903	.8	5.6	1.5
OTHER OUTSIDE SUPPORT, TOTAL	866	880	875	1,047	880	983	1,273	1,099	6.6	-13.7	3.5
ALL OTHER U.S.	621	648	875	774	640	725	955	785	7.4	-17.8	3.4
FOREIGN	245	232	0	253	240	258	318	314	4.4	-1.3	3.6
SELF-SUPPORT	1,350	1,202	1,132	1,100	1,067	1,054	1,038	1,248	-4.3	20.2	-1.1
ENVIRONMENTAL SCIENCES:											
TOTAL, ALL SOURCES	7,955	8,279	8,192	8,488	8,504	8,671	8,949	9,435	2.0	5.4	2.5
FEDERAL, TOTAL	2,257	2,400	2,445	2,802	2,672	2,375	2,191	2,227	-.5	1.6	-.2
DEPT OF DEFENSE	297	271	0	283	250	262	260	307	-2.2	18.1	.5
DEPT OF HHS, TOTAL	245	205	247	246	110	91	60	45	-13.7	-25.0	-15.4
NIH	25	45	29	29	29	14	27	19	1.3	-29.6	-3.8
OTHER HHS	120	160	218	217	81	77	33	26	-19.4	-21.2	-19.6
NSF	858	857	861	913	873	893	844	973	.1	12.6	1.8
ALL OTHER FEDERAL	957	1,067	1,337	1,360	1,439	1,129	1,007	902	.9	-10.4	-.8
INSTITUTIONAL SUPPORT	2,928	2,992	2,930	2,941	3,071	3,247	3,391	3,403	2.5	.4	2.2
OTHER OUTSIDE SUPPORT, TOTAL	602	613	730	698	835	910	939	957	7.7	1.9	6.8
ALL OTHER U.S.	355	321	730	439	555	612	653	712	10.7	9.0	10.5
FOREIGN	247	292	0	259	280	298	286	245	2.5	-14.3	-.1
SELF-SUPPORT	2,168	2,274	2,087	2,047	1,926	2,139	2,428	2,848	1.9	17.3	4.0
MATHEMATICAL/COMPUTER SCIENCES:											
TOTAL, ALL SOURCES	11,041	10,582	10,438	10,716	11,360	11,815	13,191	14,374	3.0	9.0	3.8
FEDERAL, TOTAL	839	859	904	1,020	1,060	1,095	1,111	1,076	4.8	-3.2	3.6
DEPT OF DEFENSE	409	345	0	398	481	521	503	509	3.5	1.2	3.2
DEPT OF HHS, TOTAL	124	117	125	106	83	56	42	32	-16.5	-23.8	-17.6
NIH	106	101	95	80	69	46	33	33	-15.7	-15.8	-15.7
OTHER HHS	18	16	30	26	14	10	4	0	-22.2	-100.0	-100.0
NSF	177	247	242	304	326	340	321	299	10.4	-6.9	7.8
ALL OTHER FEDERAL	129	150	537	212	170	178	245	236	11.3	-3.7	9.0
INSTITUTIONAL SUPPORT	6,568	6,337	6,211	6,301	6,552	6,896	7,412	8,062	2.0	8.8	3.0
OTHER OUTSIDE SUPPORT, TOTAL	445	399	433	660	633	643	723	707	8.4	-2.2	6.8
ALL OTHER U.S.	213	220	433	392	343	358	428	405	12.3	-5.4	9.6
FOREIGN	232	179	0	268	290	285	295	302	4.1	2.4	3.8
SELF-SUPPORT	3,189	2,987	2,890	2,735	3,115	3,181	3,945	4,529	3.6	14.8	5.1

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TABLE C-19. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1976-83

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
AGRICULTURAL SCIENCES:											
TOTAL, ALL SOURCES	8,797	9,047	8,998	9,070	9,307	9,351	9,247	9,127	.8	-1.3	.5
FEDERAL, TOTAL	1,576	1,623	1,706	1,697	1,722	1,661	1,608	1,459	.3	-9.3	-1.1
DEPT OF DEFENSE	22	15	0	16	10	11	8	15	-15.5	87.5	-5.3
DEPT OF HHS, TOTAL	83	69	82	104	116	57	37	19	-12.6	-48.6	-19.0
NIH	58	50	42	69	102	51	32	13	-9.4	-59.4	-19.2
OTHER HHS	25	19	40	35	14	6	5	6	-23.5	20.0	-18.4
NSF	96	71	81	86	73	63	61	55	-7.3	-9.8	-7.6
ALL OTHER FEDERAL	1,375	1,468	1,543	1,511	1,523	1,530	1,502	1,370	1.5	-8.8	-.1
INSTITUTIONAL SUPPORT	2,992	3,040	3,073	3,287	3,245	3,318	3,331	3,444	1.8	3.4	2.0
OTHER OUTSIDE SUPPORT, TOTAL	1,[illegible]	1,782	1,755	1,749	1,958	2,052	1,951	2,037	2.2	4.4	2.5
ALL OTHER U.S.	77[illegible]	858	1,755	768	886	900	837	924	1.2	10.4	2.5
FOREIGN	933	924	0	975	1,072	1,152	1,114	1,113	3.0	-.1	2.6
SELF-SUPPORT	2,518	2,602	2,464	2,343	2,382	2,320	2,357	2,187	-1.1	-7.2	-2.0
BIOLOGICAL SCIENCES:											
TOTAL, ALL SOURCES	26,903	27,357	26,962	26,765	26,815	26,558	26,052	26,094	-.5	.2	-.4
FEDERAL, TOTAL	6,569	6,697	6,788	7,274	7,154	6,959	6,544	6,596	-.1	.8	.1
DEPT OF DEFENSE	106	93	0	95	119	85	98	196	-1.3	100.0	9.2
DEPT OF HHS, TOTAL	4,112	4,204	4,271	4,610	4,289	4,349	3,981	4,087	-.5	2.7	-.1
NIH	3,803	3,871	3,916	4,227	4,012	4,097	3,770	3,872	-.1	2.7	.3
OTHER HHS	309	333	355	383	277	252	211	215	-6.2	1.9	-5.0
NSF	739	818	847	820	863	782	777	758	.8	-2.4	.4
ALL OTHER FEDERAL	1,612	1,582	1,670	1,749	1,883	1,743	1,688	1,555	.8	-7.9	-.5
INSTITUTIONAL SUPPORT	11,649	12,069	11,853	11,885	12,356	12,320	12,[illegible]4	12,411	.9	.8	.9
OTHER OUTSIDE SUPPORT, TOTAL	1,999	1,981	2,132	2,308	2,060	2,104	2,344	2,399	2.7	2.3	2.6
ALL OTHER U.S.	1,370	1,278	2,132	1,417	1,282	1,224	1,468	1,516	1.2	3.3	1.5
FOREIGN	629	703	0	891	778	880	876	883	5.7	.8	5.0
SELF-SUPPORT	6,686	6,610	6,189	5,298	5,245	5,179	4,850	4,688	-5.2	-3.3	-4.9
HEALTH SCIENCES:											
TOTAL, ALL SOURCES	13,636	14,563	15,234	15,910	16,525	16,193	15,6[illegible]	15,579	2.3	-.5	1.9
FEDERAL, TOTAL	5,12[illegible]	5,524	5,678	5,908	6,036	5,627	4,684	4,217	-1.5	-10.0	-2.7
DEPT OF DEFENSE	119	151	0	128	127	148	168	[illegible]	5.9	16.[illegible]	7.3
DEPT OF HHS, TOTAL	4,485	4,761	4,951	5,231	4,391	4,021	3,542	3,038	[illegible]	[illegible]	-5.4
NIH	841	652	673	673	680	812	967	819	2.4	-15.3	-.4
OTHER HHS	3,644	4,109	4,278	4,558	3,711	3,209	2,575	2,219	-5.6	-13.8	-6.8
NSF	31	36	41	36	32	21	28	23	-1.7	-17.9	-4.2
ALL OTHER FEDERAL	487	576	686	513	1,486	1,437	946	961	11.7	1.6	10.2
INSTITUTIONAL SUPPORT	2,722	2,850	2,839	3,271	3,487	3,318	3,641	3,712	5.0	2.0	4.5
OTHER OUTSIDE SUPPORT, TOTAL	682	722	822	880	832	926	903	1,100	4.8	21.8	7.1
ALL OTHER U.S.	470	484	822	601	566	687	659	[illegible]	5.8	29.7	8.9
FOREIGN	212	238	0	279	266	239	244	245	2.4	.4	2.1
SELF-SUPPORT	5,110	5,467	5,895	5,851	6,170	6,322	6,432	6,550	3.9	1.8	3.6
PSYCHOLOGY:											
TOTAL, ALL SOURCES	13,992	13,567	12,957	12,824	13,089	13,043	12,984	13,172	-1.2	1.4	-.9
FEDERAL, TOTAL	2,826	2,703	2,536	2,493	2,100	1,924	1,607	1,431	-9.0	-11.0	-9.3
DEPT OF DEFENSE	110	112	0	114	104	114	92	115	-2.9	25.0	.6
DEPT OF HHS, TOTAL	2,075	1,951	1,834	1,831	1,350	1,135	941	710	-12.3	-24.5	-14.2
NIH	890	842	617	754	702	632	493	394	-9.4	-20.1	-11.0
OTHER HHS	1,185	1,109	1,217	1,077	648	503	448	316	-15.0	-29.5	-17.2
NSF	113	128	137	161	192	154	130	119	2.4	-8.5	.7
ALL OTHER FEDERAL	528	512	565	387	454	521	444	487	-2.8	9.7	-1.1
INSTITUTIONAL SUPPORT	5,561	5,483	5,444	5,345	5,656	5,856	5,803	6,099	.7	5.1	1.3
OTHER OUTSIDE SUPPORT, TOTAL	972	980	1,174	1,051	1,079	1,059	964	1,020	-.1	5.8	.7
ALL OTHER U.S.	915	902	1,174	984	1,030	1,014	923	979	.1	6.1	1.0
FOREIGN	57	78	0	67	49	45	41	41	-5.3	.0	-4.6
SELF-SUPPORT	4,633	4,401	3,803	3,935	4,254	4,204	4,610	4,622	-.1	.3	*
SOCIAL SCIENCES:											
TOTAL, ALL SOURCES	33,612	33,617	32,736	33,993	34,672	34,373	33,110	32,866	-.3	-.7	-.3
FEDERAL, TOTAL	4,174	3,975	3,930	3,860	3,556	3,084	2,541	2,300	-7.9	-9.5	-8.2
DEPT OF DEFENSE	217	254	0	216	206	220	192	272	-2.0	41.7	3.3
DEPT OF HHS, TOTAL	1,620	1,609	1,517	1,596	1,014	902	596	373	-15.4	-37.4	-18.9
NIH	398	277	194	306	364	363	238	209	-8.2	-12.2	-8.8
OTHER HHS	1,222	1,332	1,323	1,290	650	539	358	164	-18.5	-54.2	-24.9
NSF	283	263	269	235	252	228	170	174	-8.1	2.4	-6.7
ALL OTHER FEDERAL	2,054	1,849	2,144	1,813	2,084	1,734	1,583	1,481	-4.2	-6.4	-4.6
INSTITUTIONAL SUPPORT	11,902	12,084	12,071	12,942	13,133	13,283	13,617	13,574	2.3	-.3	1.9
OTHER OUTSIDE SUPPORT, TOTAL	1,893	1,938	2,056	2,163	2,162	2,570	2,312	2,585	3.4	11.8	4.6
ALL OTHER U.S.	1,252	1,160	2,056	1,191	1,135	1,257	1,026	1,349	-3.3	31.5	1.1
FOREIGN	641	778	0	972	1,034	1,313	1,286	1,236	12.3	-3.9	9.8
SELF-SUPPORT	15,643	15,620	14,679	15,028	15,814	15,436	14,640	14,407	-1.1	-1.6	-1.2

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-20. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1976-83

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL AREAS:											
TOTAL, ALL SOURCES	57,838	59,685	60,625	63,344	65,488	67,127	67,102	68,297	2.5	1.8	2.4
FEDERAL, TOTAL	14,272	15,350	15,964	16,015	15,391	15,756	14,565	14,724	.3	1.1	.4
DEPT OF DEFENSE	1,395	1,446	0	1,472	1,537	1,653	1,632	1,833	3.1	12.3	4.4
DEPT OF HHS, TOTAL	6,240	6,715	7,241	7,291	6,606	6,089	5,599	5,357	-1.8	-4.3	-2.2
NIH	4,107	4,059	4,274	4,373	4,345	4,088	4,182	4,264	.3	2.0	.5
OTHER HHS	2,133	2,656	2,967	2,918	2,261	1,971	1,417	1,093	-6.6	-22.9	-9.1
NSF	3,892	3,420	3,425	3,465	3,426	3,367	3,403	3,455	-.5	1.5	-.2
ALL OTHER FEDERAL	3,169	3,749	5,298	3,787	4,822	4,677	3,931	4,079	3.7	3.8	3.7
INSTITUTIONAL SUPPORT	18,363	18,780	18,940	19,997	21,150	22,995	23,271	23,699	4.0	1.8	3.7
OTHER OUTSIDE SUPPORT, TOTAL	5,762	6,093	6,204	6,228	6,976	7,055	7,563	7,691	4.6	1.7	4.2
ALL OTHER U.S.	3,486	3,590	6,204	3,786	4,160	4,188	4,652	4,663	4.9	.2	4.2
FOREIGN	2,276	2,503	0	2,442	2,816	2,867	2,911	3,028	4.2	4.0	4.2
SELF-SUPPORT	19,441	19,462	19,517	21,109	20,971	21,321	21,703	22,183	1.9	2.2	1.9
ENGINEERING:											
TOTAL, ALL SOURCES	11,216	11,318	11,808	12,505	12,957	13,804	14,765	16,429	4.7	11.3	5.6
FEDERAL, TOTAL	3,676	3,588	3,611	3,796	3,845	3,766	3,684	3,880	•	5.3	.8
DEPT OF DEFENSE	787	861	0	804	877	1,004	969	1,096	3.5	13.1	4.8
DEPT OF HHS, TOTAL	418	399	383	467	326	257	250	247	-8.2	-1.2	-7.2
NIH	362	303	292	290	273	233	202	200	-9.3	-1.0	-8.1
OTHER HHS	56	96	100	177	53	24	48	47	-2.5	-2.1	-2.5
NSF	1,118	1,048	998	1,026	1,055	1,065	1,126	1,146	.1	1.8	.4
ALL OTHER FEDERAL	1,353	1,320	2,230	1,499	1,587	1,440	1,339	1,391	-.2	3.9	.4
INSTITUTIONAL SUPPORT	2,832	2,789	2,959	3,179	3,429	3,826	4,082	4,392	6.3	7.6	6.5
OTHER OUTSIDE SUPPORT, TOTAL	2,032	2,247	2,228	2,276	2,508	2,802	2,979	3,148	6.6	5.7	6.5
ALL OTHER U.S.	1,165	1,335	2,228	1,491	1,683	1,862	1,975	2,104	9.2	6.5	8.8
FOREIGN	867	912	0	785	825	940	1,004	1,044	2.5	4.0	2.7
SELF-SUPPORT	2,676	2,694	3,010	3,258	3,175	3,410	4,020	5,009	7.0	24.6	9.4
PHYSICAL SCIENCES:											
TOTAL, ALL SOURCES	6,290	6,348	6,280	6,337	6,461	6,550	6,608	6,898	.8	4.4	1.3
FEDERAL, TOTAL	2,199	2,276	2,447	2,577	2,669	2,640	2,610	2,719	2.9	4.2	3.1
DEPT OF DEFENSE	171	156	0	212	229	255	248	255	6.4	2.8	5.9
DEPT OF HHS, TOTAL	448	446	527	527	544	455	499	493	1.8	-1.2	1.4
NIH	419	406	505	487	513	441	476	489	2.9	-1.4	2.2
OTHER HHS	29	40	22	40	31	14	23	4	-31.5	33.3	-24.6
NSF	1,046	1,036	1,054	1,072	1,024	1,094	1,091	1,115	.7	2.3	.9
ALL OTHER FEDERAL	534	638	884	766	872	836	773	856	6.4	10.7	7.0
INSTITUTIONAL SUPPORT	3,285	3,204	3,048	2,989	3,068	3,170	3,204	3,261	-.4	1.8	-.1
OTHER OUTSIDE SUPPORT, TOTAL	461	466	473	451	427	433	467	578	.1	23.8	3.3
ALL OTHER U.S.	328	305	473	310	308	326	340	430	-.6	26.5	3.9
FOREIGN	133	161	0	141	119	107	127	148	-.8	16.5	1.5
SELF-SUPPORT	345	402	294	320	297	307	327	340	-.9	4.0	-.2
ENVIRONMENTAL SCIENCES:											
TOTAL, ALL SOURCES	1,713	1,740	1,805	1,683	1,741	1,820	1,924	1,993	2.0	3.6	2.2
FEDERAL, TOTAL	659	655	723	663	647	590	617	612	-1.1	-.8	-1.1
DEPT OF DEFENSE	71	61	0	45	44	48	40	56	-9.1	40.0	-3.3
DEPT OF HHS, TOTAL	33	44	45	37	9	5	13	1	-14.4	-92.3	-39.3
NIH	25	4	2	2	2	3	11	0	-12.8	-100.0	-100.0
OTHER HHS	8	40	43	35	3	2	2	1	-20.6	-50.0	-25.7
NSF	338	345	383	358	369	306	322	340	-.8	5.6	.1
ALL OTHER FEDERAL	217	205	295	223	277	231	242	215	1.8	-11.2	-.1
INSTITUTIONAL SUPPORT	552	592	570	568	577	669	706	658	4.2	-6.8	2.5
OTHER OUTSIDE SUPPORT, TOTAL	163	183	144	167	207	214	260	299	8.1	15.0	9.1
ALL OTHER U.S.	95	121	144	102	136	135	186	238	11.8	28.0	14.0
FOREIGN	68	62	0	65	71	79	74	61	1.4	-17.6	-1.5
SELF-SUPPORT	339	310	368	285	280	342	341	424	.1	24.3	3.2
MATHEMATICAL/COMPUTER SCIENCES:											
TOTAL, ALL SOURCES	3,523	3,428	3,284	3,493	3,908	4,330	4,891	5,297	5.6	6.5	5.7
FEDERAL, TOTAL	586	578	567	610	661	631	664	718	2.1	8.1	2.9
DEPT OF DEFENSE	174	171	0	210	141	212	227	237	4.5	5.3	4.6
DEPT OF HHS, TOTAL	27	29	35	35	39	29	43	38	7.1	-11.6	5.0
NIH	25	21	23	22	31	26	29	22	2.5	-24.1	-1.8
OTHER HHS	2	4	12	13	8	3	14	16	38.3	14.3	34.6
NSF	303	295	295	280	269	273	292	307	-.6	5.1	.2
ALL OTHER FEDERAL	82	87	237	85	212	117	102	134	3.7	31.4	7.3
INSTITUTIONAL SUPPORT	1,742	1,705	1,712	1,645	1,749	1,875	1,994	2,136	2.3	7.1	3.0
OTHER OUTSIDE SUPPORT, TOTAL	405	431	419	388	488	481	483	489	3.0	1.2	2.7
ALL OTHER U.S.	190	207	419	208	308	261	256	260	5.1	1.6	4.6
FOREIGN	215	224	0	180	180	220	227	229	.9	.9	.9
SELF-SUPPORT	790	714	586	850	1,010	1,343	1,750	1,864	14.2	6.5	13.0

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TABLE C-20. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1976-83

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
AGRICULTURAL SCIENCES:											
TOTAL, ALL SOURCES	243	249	261	301	284	279	253	270	.7	6.7	1.5
FEDERAL, TOTAL	47	48	53	55	56	49	46	51	-.4	10.9	1.2
DEPT OF DEFENSE	0	0	0	0	1	0	0	0	**	**	**
DEPT OF HHS, TOTAL	0	0	3	0	1	0	0	4	**	**	**
NIH	0	0	1	0	1	0	0	4	**	**	**
OTHER HHS	0	0	2	0	0	0	0	0	**	**	**
NSF	9	5	9	8	9	7	6	6	1.8	-40.0	-5.6
ALL OTHER FEDERAL	38	43	41	47	45	42	40	41	-.9	13.9	1.1
INSTITUTIONAL SUPPORT	94	104	112	116	114	130	113	132	3.1	16.8	5.0
OTHER OUTSIDE SUPPORT, TOTAL	59	46	49	71	65	64	57	53	-.6	-7.0	-1.5
ALL OTHER U.S.	21	18	49	36	24	31	28	19	4.9	-32.1	-1.4
FOREIGN	38	28	0	35	41	33	29	34	-4.4	17.2	-1.6
SELF-SUPPORT	43	51	47	59	49	36	37	34	-2.5	-8.1	-3.3
BIOLOGICAL SCIENCES:											
TOTAL, ALL SOURCES	8,721	8,871	9,012	9,072	9,002	8,896	9,174	9,169	.8	-.1	.7
FEDERAL, TOTAL	3,230	3,254	3,383	3,561	3,571	3,546	3,511	3,584	1.4	2.1	1.5
DEPT OF DEFENSE	39	41	0	27	43	32	24	44	-7.8	91.7	2.4
DEPT OF HHS, TOTAL	2,687	2,698	2,808	2,979	2,961	2,859	2,963	2,991	1.6	1.2	1.6
NIH	2,491	2,579	2,638	2,795	2,836	2,716	2,852	2,904	2.3	1.8	2.2
OTHER HHS	196	119	170	184	125	143	111	95	-9.0	-14.4	-9.8
NSF	306	318	356	325	310	309	301	291	-.3	-3.3	-.7
ALL OTHER FEDERAL	198	199	219	230	257	346	223	250	2.0	12.1	3.4
INSTITUTIONAL SUPPORT	2,944	3,088	3,031	3,142	3,190	3,354	3,482	3,467	2.8	-.4	2.4
OTHER OUTSIDE SUPPORT, TOTAL	552	556	629	571	671	642	709	772	4.3	8.9	4.9
ALL OTHER U.S.	396	396	629	371	464	449	497	519	3.9	4.4	3.9
FOREIGN	156	160	0	200	207	193	212	253	5.2	19.3	7.2
SELF-SUPPORT	1,995	1,971	1,969	1,798	1,570	1,354	1,472	1,344	-4.9	-8.7	-5.5
HEALTH SCIENCES:											
TOTAL, ALL SOURCES	3,603	4,216	4,748	5,353	5,778	5,918	5,267	4,946	6.5	-6.1	4.6
FEDERAL, TOTAL	1,221	1,793	2,012	2,117	2,148	2,026	1,436	1,312	2.7	-8.6	1.0
DEPT OF DEFENSE	15	29	0	40	37	34	23	58	7.4	152.2	21.3	
DEPT OF HHS, TOTAL	1,121	1,639	1,795	1,896	1,739	1,557	1,151	1,047	.4	-9.0	-1.0
NIH	231	241	206	219	199	259	263	347	2.2	31.9	6.0
OTHER HHS	890	1,398	1,549	1,677	1,540	1,298	888	700	*	-21.2	-3.4
NSF	8	4	2	6	10	7	6	6	-4.7	.0	-4.0
ALL OTHER FEDERAL	77	121	295	175	362	428	256	201	22.2	-21.5	14.7
INSTITUTIONAL SUPPORT	493	584	703	712	950	996	971	977	12.0	.6	10.3
OTHER OUTSIDE SUPPORT, TOTAL	205	261	316	344	365	331	367	455	10.2	24.0	12.1
ALL OTHER U.S.	140	145	316	147	152	133	176	233	3.9	32.4	7.5
FOREIGN	65	116	0	197	213	198	191	222	19.7	16.2	19.2
SELF-SUPPORT	1,684	1,578	1,717	2,180	2,315	2,565	2,493	2,202	6.8	-11.7	3.9
PSYCHOLOGY:											
TOTAL, ALL SOURCES	7,490	7,699	7,754	7,913	8,491	8,501	8,119	8,195	1.4	.4	1.2
FEDERAL, TOTAL	1,250	1,233	1,400	945	1,089	971	676	551	-9.7	-18.5	-11.0
DEPT OF DEFENSE	30	45	0	36	23	25	22	20	-5.0	-9.1	-5.6
DEPT OF HHS, TOTAL	901	874	1,074	650	522	498	359	294	-14.2	-18.1	-14.8
NIH	377	335	466	321	308	266	200	190	-10.0	-5.0	-9.3
OTHER HHS	524	539	608	329	214	232	159	104	-18.0	-34.6	-20.6
NSF	99	98	85	93	88	89	76	73	-4.3	-3.9	-4.3
ALL OTHER FEDERAL	220	216	241	166	456	359	219	164	-.1	-25.1	-4.1
INSTITUTIONAL SUPPORT	1,802	2,032	2,000	2,120	2,213	2,758	2,754	2,695	7.3	-2.1	5.9
OTHER OUTSIDE SUPPORT, TOTAL	302	313	429	301	359	446	413	295	5.4	-28.6	-.3
ALL OTHER U.S.	275	285	429	255	292	416	381	271	5.6	-28.9	-.2
FOREIGN	27	28	0	46	67	30	32	24	2.9	-25.0	-1.7
SELF-SUPPORT	4,136	4,121	3,925	4,547	4,830	4,326	4,276	4,614	.6	7.9	1.6
SOCIAL SCIENCES:											
TOTAL, ALL SOURCES	15,039	15,816	15,673	16,687	16,846	17,029	16,101	15,230	1.1	-5.4	.2
FEDERAL, TOTAL	1,404	1,923	1,750	1,491	1,655	1,537	1,321	1,295	-1.0	-2.0	-1.1
DEPT OF DEFENSE	68	102	0	98	140	43	79	63	2.5	-20.3	-1.1
DEPT OF HHS, TOTAL	605	630	611	700	469	399	321	234	-10.0	-27.1	-12.7
NIH	177	170	150	237	182	144	129	108	-5.1	-16.3	-6.8
OTHER HHS	428	460	461	463	287	255	192	126	-12.5	-34.4	-16.0
NSF	281	271	243	297	292	227	180	171	-7.2	-5.0	-6.8
ALL OTHER FEDERAL	450	920	896	596	754	868	741	827	8.7	11.6	9.1
INSTITUTIONAL SUPPORT	4,619	4,682	4,805	5,525	5,860	6,217	5,965	5,981	4.4	.3	3.8
OTHER OUTSIDE SUPPORT, TOTAL	1,583	1,590	1,517	1,659	1,886	1,637	1,828	1,602	2.4	-12.4	.2
ALL OTHER U.S.	876	778	1,517	866	793	570	813	589	-1.2	-27.6	-5.5
FOREIGN	707	812	0	793	1,093	1,067	1,015	1,013	6.2	-.2	5.3
SELF-SUPPORT	7,433	7,621	7,601	7,812	7,445	7,638	6,987	6,352	-1.0	-9.1	-2.2

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-21. — MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1976-77 AND 1979-83 1/

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL AREAS:										
TOTAL, ALL SOURCES	156,257	154,303	152,334	154,605	155,293	157,196	162,185	.1	3.2	.5
FEDERAL, TOTAL	35,698	35,883	36,448	36,014	34,636	32,559	33,140	-1.5	1.8	-1.1
DEPT OF DEFENSE	4,514	4,651	4,584	4,774	5,165	5,326	6,161	2.8	15.7	4.5
DEPT OF HHS, TOTAL	11,263	10,882	11,356	9,615	8,924	7,949	7,566	-5.6	-5.1	-5.6
NIH	7,886	7,500	7,616	7,458	7,136	6,639	6,569	-2.8	-1.1	-2.6
OTHER HHS	3,377	3,382	3,740	2,157	1,788	1,310	977	-14.6	-25.4	-16.2
NSF	7,858	7,785	7,775	7,677	7,454	7,557	7,715	-.6	2.1	-.3
ALL OTHER FEDERAL	12,063	12,565	12,753	13,948	13,093	11,727	11,718	-.5	-.1	-.4
INSTITUTIONAL SUPPORT	59,273	58,822	58,201	60,022	61,540	62,534	64,193	.9	2.7	1.1
OTHER OUTSIDE SUPPORT, TOTAL	14,698	14,779	15,705	16,382	17,533	18,716	18,721	4.1	*	3.5
ALL OTHER U.S.	9,012	8,685	9,182	9,574	10,216	11,253	11,401	3.8	1.3	3.4
FOREIGN	5,686	6,094	6,523	6,808	7,317	7,463	7,320	4.6	-1.9	3.7
SELF-SUPPORT	46,588	44,819	41,960	42,187	41,584	43,387	46,131	-1.2	6.3	-.1
ENGINEERING:										
TOTAL, ALL SOURCES	34,240	34,350	35,867	38,016	40,178	43,445	47,748	4.0	9.9	4.9
FEDERAL, TOTAL	10,027	10,013	10,009	10,264	10,065	10,055	10,910	*	8.5	1.2
DEPT OF DEFENSE	2,571	2,685	2,571	2,712	3,004	3,250	3,785	4.0	16.5	5.7
DEPT OF HHS, TOTAL	922	853	901	549	451	419	450	-12.3	7.4	-9.7
NIH	617	512	446	426	383	338	373	-9.5	10.4	-6.9
OTHER HHS	305	341	455	123	68	81	77	-19.8	-4.9	-17.9
NSF	2,461	2,382	2,256	2,241	2,187	2,365	2,445	-.7	3.4	-.1
ALL OTHER FEDERAL	4,073	4,093	4,281	4,762	4,423	4,021	4,230	-.2	5.2	.5
INSTITUTIONAL SUPPORT	9,856	9,822	10,419	11,400	12,620	13,388	14,342	5.2	7.1	5.5
OTHER OUTSIDE SUPPORT, TOTAL	4,534	4,812	5,141	5,626	6,277	6,936	7,189	7.3	3.6	6.8
ALL OTHER U.S.	2,895	2,985	3,301	3,710	4,237	4,674	4,977	8.3	6.5	8.0
FOREIGN	1,639	1,827	1,840	1,916	2,040	2,262	2,212	5.5	-2.2	4.4
SELF-SUPPORT	9,823	9,703	10,298	10,726	11,216	13,066	15,307	4.9	17.2	6.5
PHYSICAL SCIENCES:										
TOTAL, ALL SOURCES	18,674	18,696	18,467	18,721	18,785	19,127	19,847	.4	3.8	.9
FEDERAL, TOTAL	5,703	5,818	6,476	6,644	6,765	6,449	6,736	2.1	4.1	2.4
DEPT OF DEFENSE	458	499	569	602	681	625	713	5.3	14.1	6.5
DEPT OF HHS, TOTAL	1,121	1,086	1,262	1,314	1,195	1,126	1,140	.1	1.2	.2
NIH	1,022	961	1,137	1,246	1,107	1,059	1,062	.6	.3	.5
OTHER HHS	99	125	125	68	88	67	78	-6.3	16.4	-3.3
NSF	2,530	2,481	2,635	2,544	2,617	2,683	2,740	1.0	2.1	1.1
ALL OTHER FEDERAL	1,594	1,752	2,010	2,184	2,272	2,035	2,143	4.2	5.3	4.3
INSTITUTIONAL SUPPORT	10,337	10,326	9,512	9,793	9,707	10,054	10,411	-.5	3.5	.1
OTHER OUTSIDE SUPPORT, TOTAL	1,151	1,182	1,271	1,101	1,187	1,457	1,374	4.0	-5.7	2.6
ALL OTHER U.S.	[illegible]	835	926	800	870	1,074	990	4.9	-7.8	2.9
FOREIGN	343	347	345	301	317	383	384	1.9	.3	1.6
SELF-SUPPORT	1,483	1,370	1,208	1,183	1,126	1,148	1,326	-4.2	15.8	-1.6
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL SOURCES	8,118	8,292	8,024	7,930	8,039	8,208	8,610	.2	4.9	.8
FEDERAL, TOTAL	2,555	2,589	2,787	2,661	2,278	2,170	2,174	-2.7	.2	-2.3
DEPT OF DEFENSE	340	304	287	259	265	268	312	-3.9	16.4	-1.2
DEPT OF HHS, TOTAL	153	208	193	72	59	49	32	-17.3	-34.7	-20.0
NIH	43	39	22	19	11	27	15	-7.5	-44.4	-14.0
OTHER HHS	110	169	171	53	48	22	17	-23.5	-22.7	-23.4
NSF	1,033	1,014	1,031	981	917	903	993	-2.2	10.0	-.6
ALL OTHER FEDERAL	1,029	1,063	1,276	1,349	1,037	950	837	-1.3	-11.9	-2.9
INSTITUTIONAL SUPPORT	2,786	2,829	2,653	2,725	2,917	2,961	2,954	1.0	-.2	.8
OTHER OUTSIDE SUPPORT, TOTAL	676	690	731	859	923	976	1,013	6.3	3.8	5.9
ALL OTHER U.S.	380	364	430	542	584	655	733	9.5	11.9	9.8
FOREIGN	296	326	301	317	339	321	280	1.4	-12.8	-.8
SELF-SUPPORT	2,101	2,184	1,853	1,685	1,921	2,101	2,469	.0	17.5	2.3
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL SOURCES	11,657	11,201	11,303	11,896	12,322	13,562	14,710	2.6	8.5	3.4
FEDERAL, TOTAL	1,275	1,295	1,429	1,502	1,510	1,542	1,559	3.2	1.1	2.9
DEPT OF DEFENSE	544	485	559	581	680	676	678	3.7	.3	3.2
DEPT OF HHS, TOTAL	125	120	105	91	72	68	56	-9.6	-17.6	-10.8
NIH	107	101	83	79	65	58	41	-9.7	-29.3	-12.8
OTHER HHS	18	19	22	12	7	10	15	-9.3	50.0	-2.6
NSF	422	485	508	510	512	509	521	3.2	2.4	3.1
ALL OTHER FEDERAL	184	205	257	320	246	289	304	7.8	5.2	7.4
INSTITUTIONAL SUPPORT	6,485	6,247	6,203	6,425	6,591	7,007	7,561	1.3	7.9	2.2
OTHER OUTSIDE SUPPORT, TOTAL	710	704	836	909	924	953	956	5.0	.3	4.3
ALL OTHER U.S.	311	346	461	519	495	531	521	9.3	-1.9	7.6
FOREIGN	399	358	375	390	429	422	435	.9	3.1	1.2
SELF-SUPPORT	3,187	2,955	2,835	3,060	3,297	4,060	4,634	4.1	14.1	5.5

CONTINUED ON NEXT PAGE.

TABLE C-21. -- MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1976-77 AND 1979-83 1/

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
AGRICULTURAL SCIENCES:										
TOTAL, ALL SOURCES	7,618	7,571	7,260	7,299	7,388	7,128	7,028	-1.1	-1.4	-1.1
FEDERAL, TOTAL	1,392	1,375	1,409	1,366	1,312	1,275	1,148	-1.5	-10.0	-2.7
DEPT OF DEFENSE	20	12	14	10	9	6	11	-18.2	83.3	-8.2
DEPT OF HHS, TOTAL	62	54	72	74	35	25	14	-14.0	-44.0	-19.2
NIH	45	42	53	69	34	23	11	-10.6	-52.2	-18.2
OTHER HHS	17	12	19	5	1	2	3	-30.0	50.0	-21.9
NSF	90	60	50	67	57	48	43	-9.9	-10.4	-10.0
ALL OTHER FEDERAL	1,220	1,249	1,273	1,215	1,211	1,196	1,080	-.3	-9.7	-1.7
INSTITUTIONAL SUPPORT	2,534	2,492	2,549	2,473	2,504	2,448	2,610	-.6	6.6	.4
OTHER OUTSIDE SUPPORT, TOTAL	1,604	1,619	1,596	1,737	1,827	1,715	1,758	1.1	2.5	1.3
ALL OTHER U.S.	690	740	666	709	731	673	719	-.4	6.8	.6
FOREIGN	914	879	930	1,028	1,096	1,042	1,039	2.2	-.3	1.8
SELF-SUPPORT	2,088	2,085	1,706	1,723	1,745	1,690	1,512	-3.5	-10.5	-4.5
BIOLOGICAL SCIENCES:										
TOTAL, ALL SOURCES	24,624	24,374	23,068	22,633	22,100	21,344	21,195	-2.4	-.7	-2.1
FEDERAL, TOTAL	6,857	6,788	7,088	6,926	6,771	6,306	6,264	-1.4	-.7	-1.3
DEPT OF DEFENSE	121	108	91	113	92	88	169	-5.2	92.0	4.9
DEPT OF HHS, TOTAL	4,608	4,617	4,871	4,608	4,585	4,299	4,294	-1.2	-.1	-1.0
NIH	4,321	4,395	4,565	4,399	4,351	4,118	4,137	-.8	.5	-.6
OTHER HHS	287	222	306	209	234	181	157	-7.4	-13.3	-8.3
NSF	750	789	788	794	739	699	638	-1.2	-8.7	-2.3
ALL OTHER FEDERAL	1,378	1,274	1,338	1,411	1,351	1,220	1,163	-2.0	-4.7	-2.4
INSTITUTIONAL SUPPORT	9,977	10,187	9,695	9,825	9,593	9,418	9,411	-1.0	-.1	-.8
OTHER OUTSIDE SUPPORT, TOTAL	1,948	1,877	2,023	1,890	1,970	2,115	2,168	1.4	2.5	1.5
ALL OTHER U.S.	1,289	1,170	1,171	1,115	1,114	1,276	1,292	-.2	1.3	*
FOREIGN	659	707	852	775	856	839	876	4.1	4.4	4.2
SELF-SUPPORT	5,842	5,522	4,262	3,992	3,767	3,505	3,352	-8.2	-4.4	-7.6
HEALTH SCIENCES:										
TOTAL, ALL SOURCES	7,080	7,043	7,193	7,399	6,997	6,516	6,329	-1.4	-2.9	-1.6
FEDERAL, TOTAL	2,063	2,022	2,268	2,193	1,959	1,447	1,337	-5.7	-7.6	-6.0
DEPT OF DEFENSE	105	137	110	112	111	111	120	.9	8.1	1.9
DEPT OF HHS, TOTAL	1,644	1,505	1,788	1,498	1,337	1,032	908	-7.7	-12.0	-8.3
NIH	741	608	581	525	549	583	562	-3.9	-3.6	-3.9
OTHER HHS	923	897	1,207	973	788	449	346	-11.3	-22.9	-13.1
NSF	31	31	24	27	19	24	14	-4.2	-41.7	-10.7
ALL OTHER FEDERAL	263	349	346	556	492	280	295	1.0	5.4	1.7
INSTITUTIONAL SUPPORT	1,912	1,918	1,902	2,062	1,937	1,909	1,764	*	-7.6	-1.1
OTHER OUTSIDE SUPPORT, TOTAL	596	581	640	666	684	700	793	2.7	13.3	4.2
ALL OTHER U.S.	402	358	323	355	372	395	495	-.3	25.3	3.0
FOREIGN	194	223	317	311	312	305	298	7.8	-2.3	6.3
SELF-SUPPORT	2,509	2,522	2,383	2,478	2,417	2,460	2,435	-.3	-1.0	-.4
PSYCHOLOGY:										
TOTAL, ALL SOURCES	12,203	11,604	10,612	10,618	10,173	9,604	9,591	-3.9	-.1	-3.4
FEDERAL, TOTAL	2,284	2,173	1,803	1,568	1,418	1,127	923	-11.1	-18.1	-12.1
DEPT OF DEFENSE	106	122	106	86	96	69	83	-6.9	20.3	-3.4
DEPT OF HHS, TOTAL	1,569	1,456	1,220	880	749	629	448	-14.1	-28.8	-16.4
NIH	697	612	512	489	424	306	250	-12.8	-18.3	-13.6
OTHER HHS	872	844	708	391	325	323	198	-15.3	-38.7	-19.1
NSF	141	149	141	155	124	104	99	-4.9	-4.8	-4.9
ALL OTHER FEDERAL	468	446	336	447	449	325	293	-5.9	-9.8	-6.5
INSTITUTIONAL SUPPORT	4,205	4,195	3,909	3,935	4,087	3,924	3,926	-1.1	.1	-1.0
OTHER OUTSIDE SUPPORT, TOTAL	745	720	723	717	782	733	621	-.3	-15.3	-2.6
ALL OTHER U.S.	697	654	655	650	748	698	588	*	-15.8	-2.4
FOREIGN	48	66	68	67	34	35	33	-5.1	-5.7	-5.2
SELF-SUPPORT	4,969	4,516	4,177	4,398	3,886	3,820	4,121	-4.3	7.9	-2.6
SOCIAL SCIENCES:										
TOTAL, ALL SOURCES	32,043	31,172	30,540	30,093	29,311	28,262	27,127	-2.1	-4.0	-2.4
FEDERAL, TOTAL	3,542	3,810	3,199	2,890	2,558	2,168	2,089	-7.9	-3.6	-7.3
DEPT OF DEFENSE	249	299	277	299	227	233	290	-1.1	24.5	2.2
DEPT OF HHS, TOTAL	1,039	983	944	529	437	302	204	-18.6	-32.5	-20.7
NIH	293	230	217	206	212	127	118	-13.0	-7.1	-12.2
OTHER HHS	746	753	727	323	225	175	86	-21.5	-50.9	-26.6
NSF	400	394	342	358	282	222	222	-9.3	.0	-8.1
ALL OTHER FEDERAL	1,854	2,134	1,636	1,704	1,612	1,411	1,373	-4.4	-2.7	-4.2
INSTITUTIONAL SUPPORT	11,181	10,806	11,359	11,384	11,585	11,423	11,214	.4	-1.8	*
OTHER OUTSIDE SUPPORT, TOTAL	2,734	2,594	2,744	2,877	2,959	3,131	2,649	2.3	-9.0	.6
ALL OTHER U.S.	1,540	1,233	1,249	1,174	1,065	1,277	1,086	-3.1	-15.0	-4.9
FOREIGN	1,194	1,361	1,495	1,703	1,894	1,854	1,763	7.6	-4.9	5.7
SELF-SUPPORT	14,586	13,962	13,238	12,942	12,209	11,540	10,975	-3.8	-4.9	-4.0

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-22. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1976-77 AND 1979-83 1/

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL AREAS:										
TOTAL, ALL SOURCES	57,832	63,150	71,075	75,930	78,901	79,743	81,461	5.5	2.2	5.0
FEDERAL, TOTAL	12,896	14,495	16,403	16,925	16,261	14,647	14,262	2.1	-2.6	1.4
DEPT OF DEFENSE	284	342	414	465	482	535	737	11.1	37.8	14.6
DEPT OF HHS, TOTAL	9,103	10,199	11,293	9,762	9,094	8,091	7,457	-1.9	-7.8	-2.8
NIH	3,474	3,428	4,044	4,102	4,147	4,221	4,250	3.3	.7	2.9
OTHER HHS	5,629	6,771	7,249	5,660	4,947	3,870	3,207	-6.1	-17.1	-7.7
NSF	1,104	1,238	1,500	1,566	1,630	1,650	1,761	6.9	6.7	6.9
ALL OTHER FEDERAL	2,405	2,716	3,196	5,132	5,055	4,371	4,307	10.5	-1.5	8.7
INSTITUTIONAL SUPPORT	19,944	21,582	24,612	26,693	28,721	30,710	31,995	7.5	4.2	7.0
OTHER OUTSIDE SUPPORT, TOTAL	2,982	3,450	4,334	4,684	4,849	4,914	5,694	8.7	15.9	9.7
ALL OTHER U.S.	2,361	2,638	3,311	3,489	3,616	3,610	4,324	7.3	19.8	9.0
FOREIGN	621	812	1,023	1,195	1,233	1,304	1,370	13.2	5.1	12.0
SELF-SUPPORT	22,010	23,623	25,726	27,628	29,070	29,472	29,510	5.0	.1	4.3
ENGINEERING:										
TOTAL, ALL SOURCES	1,991	2,325	3,477	3,923	4,639	5,242	5,805	17.5	10.7	16.5
FEDERAL, TOTAL	441	524	748	843	858	950	1,014	13.6	6.7	12.6
DEPT OF DEFENSE	57	68	81	138	135	169	195	19.9	15.4	19.2
DEPT OF HHS, TOTAL	72	73	143	112	94	82	125	2.2	52.4	8.2
NIH	53	41	67	81	63	65	104	3.5	60.0	10.1
OTHER HHS	19	32	76	31	31	17	21	-1.8	23.5	1.4
NSF	102	122	156	166	179	202	229	12.1	13.4	12.2
ALL OTHER FEDERAL	210	261	368	427	450	497	465	15.4	-6.4	12.0
INSTITUTIONAL SUPPORT	591	717	1,113	1,234	1,480	1,781	1,931	20.2	8.4	18.4
OTHER OUTSIDE SUPPORT, TOTAL	246	276	416	526	605	701	779	19.1	11.1	17.9
ALL OTHER U.S.	183	212	331	439	492	563	664	20.6	17.9	20.2
FOREIGN	63	64	85	87	113	138	115	14.0	-16.7	9.0
SELF-SUPPORT	713	808	1,200	1,320	1,696	1,810	2,081	16.8	15.0	16.5
PHYSICAL SCIENCES:										
TOTAL, ALL SOURCES	2,916	3,051	3,330	3,533	3,815	4,203	4,629	6.3	10.1	6.8
FEDERAL, TOTAL	663	756	942	1,011	1,134	1,175	1,311	10.0	11.6	10.2
DEPT OF DEFENSE	35	51	71	59	72	81	114	15.0	40.7	18.4
DEPT OF HHS, TOTAL	233	249	322	313	320	364	367	7.7	.8	6.7
NIH	221	226	276	290	301	349	347	7.9	-.6	6.7
OTHER HHS	12	17	46	23	19	15	20	3.8	33.3	7.6
NSF	228	282	326	334	412	419	467	10.7	11.5	10.8
ALL OTHER FEDERAL	167	180	223	305	330	311	363	10.9	16.7	11.7
INSTITUTIONAL SUPPORT	1,865	1,897	1,969	2,135	2,217	2,525	2,753	5.2	9.0	5.7
OTHER OUTSIDE SUPPORT, TOTAL	176	164	207	204	229	283	303	8.2	7.1	8.1
ALL OTHER U.S.	141	118	158	148	181	221	225	7.8	1.8	6.9
FOREIGN	35	46	49	56	48	62	78	10.0	25.8	12.1
SELF-SUPPORT	212	234	212	181	235	220	262	.6	19.1	3.1
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL SOURCES	1,550	1,727	2,147	2,335	2,452	2,665	2,818	9.5	5.7	8.9
FEDERAL, TOTAL	361	466	678	708	687	638	665	10.0	4.2	9.1
DEPT OF DEFENSE	28	28	41	37	45	32	51	2.3	59.4	8.9
DEPT OF HHS, TOTAL	25	41	90	43	37	24	14	-.7	-41.7	-7.9
NIH	7	10	9	12	6	11	4	7.8	-63.6	-7.7
OTHER HHS	18	31	81	31	31	13	10	-5.3	-23.1	-8.1
NSF	163	188	240	261	282	283	320	9.6	13.1	10.1
ALL OTHER FEDERAL	145	209	307	367	323	299	280	12.8	-6.4	9.9
INSTITUTIONAL SUPPORT	694	755	856	923	999	1,134	1,107	8.6	-2.6	6.9
OTHER OUTSIDE SUPPORT, TOTAL	89	106	134	183	206	223	243	16.5	9.0	15.4
ALL OTHER U.S.	70	78	111	149	168	184	217	17.5	17.9	17.5
FOREIGN	19	28	23	34	38	39	26	12.7	-33.3	4.6
SELF-SUPPORT	406	400	479	521	560	668	803	8.7	20.2	10.2
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL SOURCES	2,907	2,809	2,906	3,372	3,823	4,520	4,871	7.6	7.8	7.7
FEDERAL, TOTAL	150	142	201	219	216	233	235	7.6	.9	6.6
DEPT OF DEFENSE	39	31	49	41	53	54	70	5.6	29.6	8.7
DEPT OF HHS, TOTAL	26	22	36	31	13	17	14	-6.8	-17.6	-8.5
NIH	24	21	19	21	7	9	13	-15.1	44.4	-8.4
OTHER HHS	2	1	17	10	6	8	1	26.0	-87.5	-9.4
NSF	58	57	76	85	91	104	85	10.2	-18.3	5.6
ALL OTHER FEDERAL	27	32	40	62	59	58	66	13.6	13.8	13.6
INSTITUTIONAL SUPPORT	1,825	1,795	1,743	1,876	2,180	2,399	2,637	4.7	9.9	5.4
OTHER OUTSIDE SUPPORT, TOTAL	140	126	212	212	200	253	240	10.4	-5.1	8.0
ALL OTHER U.S.	92	81	139	132	124	153	144	8.8	-5.9	6.6
FOREIGN	48	45	73	80	76	100	96	13.0	-4.0	10.4
SELF-SUPPORT	792	746	750	1,065	1,227	1,635	1,759	12.8	7.6	12.1

CONTINUED ON NEXT PAGE.

TABLE C-22. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1976-77 AND 1979-83 1/

- CONTINUED

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
AGRICULTURAL SCIENCES:										
TOTAL, ALL SOURCES	1,422	1,725	2,111	2,292	2,242	2,372	2,369	8.9	-0.1	7.6
FEDERAL, TOTAL	231	296	343	412	398	379	362	8.6	-4.5	6.6
DEPT OF DEFENSE	2	3	2	1	2	2	4	.0	100.0	10.4
DEPT OF HHS, TOTAL	21	15	32	43	22	12	9	-8.9	-25.0	-11.4
NIH	13	8	16	34	17	9	6	-5.9	-33.3	-10.5
OTHER HHS	8	7	16	9	5	3	3	-15.1	.0	-13.1
NSF	15	16	24	15	13	23	18	7.4	-21.7	2.6
ALL OTHER FEDERAL	193	262	285	353	361	342	331	10.0	-3.2	8.0
INSTITUTIONAL SUPPORT	552	652	854	886	944	996	966	10.3	-3.0	8.3
OTHER OUTSIDE SUPPORT, TOTAL	166	209	218	286	289	293	332	9.9	13.3	10.4
ALL OTHER U.S.	109	136	138	201	200	192	224	9.9	16.7	10.8
FOREIGN	57	73	80	85	89	101	108	10.0	6.9	9.6
SELF-SUPPORT	473	568	696	708	611	704	709	6.9	.7	6.0
BIOLOGICAL SCIENCES:										
TOTAL, ALL SOURCES	11,000	11,854	12,769	13,184	13,354	13,882	14,068	4.0	1.3	3.6
FEDERAL, TOTAL	2,942	3,165	3,747	3,799	3,734	3,749	3,918	4.1	4.5	4.2
DEPT OF DEFENSE	24	26	31	49	25	34	73	6.0	114.7	17.2
DEPT OF HHS, TOTAL	2,191	2,285	2,718	2,642	2,619	2,645	2,792	3.2	5.6	3.5
NIH	1,973	2,055	2,457	2,449	2,462	2,504	2,639	4.1	5.4	4.2
OTHER HHS	218	230	261	193	157	141	153	-7.0	8.5	-4.9
NSF	295	347	357	379	352	379	411	4.3	8.4	4.9
ALL OTHER FEDERAL	432	507	641	729	738	691	642	8.1	-7.1	5.8
INSTITUTIONAL SUPPORT	4,616	4,970	5,332	5,721	6,082	6,378	6,447	5.5	1.4	4.9
OTHER OUTSIDE SUPPORT, TOTAL	603	640	856	841	776	938	1,003	7.6	6.9	7.5
ALL OTHER U.S.	477	504	617	631	559	689	743	6.3	7.8	6.5
FOREIGN	126	136	239	210	217	249	260	12.0	4.4	10.9
SELF-SUPPORT	2,839	3,059	2,834	2,823	2,762	2,817	2,680	-.1	-4.9	-.8
HEALTH SCIENCES:										
TOTAL, ALL SOURCES	10,159	11,736	14,070	14,904	15,114	14,411	14,196	6.0	-1.5	4.9
FEDERAL, TOTAL	4,280	5,295	5,757	5,991	5,694	4,673	4,192	1.5	-10.3	-.3
DEPT OF DEFENSE	29	43	58	52	71	80	133	18.4	66.2	24.3
DEPT OF HHS, TOTAL	3,942	4,895	5,339	4,632	4,241	3,661	3,177	-1.2	-13.2	-3.0
NIH	331	285	311	354	522	647	604	11.8	-6.6	9.0
OTHER HHS	3,611	4,610	5,028	4,278	3,719	3,014	2,573	-3.0	-14.6	-4.7
NSF	8	9	18	15	9	10	15	3.8	50.0	9.4
ALL OTHER FEDERAL	301	348	342	1,292	1,373	922	867	20.5	-6.0	16.3
INSTITUTIONAL SUPPORT	1,303	1,516	2,081	2,375	2,377	2,703	2,925	12.9	8.2	12.2
OTHER OUTSIDE SUPPORT, TOTAL	291	402	584	531	573	570	762	11.9	33.7	14.7
ALL OTHER U.S.	208	271	425	363	448	440	593	13.3	34.8	16.1
FOREIGN	83	131	159	168	125	130	169	7.8	30.0	10.7
SELF-SUPPORT	4,285	4,523	5,648	6,007	6,470	6,465	6,317	7.1	-2.3	5.7
PSYCHOLOGY:										
TOTAL, ALL SOURCES	9,279	9,662	10,125	10,962	11,371	11,499	11,736	3.6	2.1	3.4
FEDERAL, TOTAL	1,792	1,763	1,636	1,621	1,477	1,156	1,089	-7.0	-8.4	-7.2
DEPT OF DEFENSE	34	35	44	41	43	45	52	4.8	15.6	6.3
DEPT OF HHS, TOTAL	1,407	1,369	1,261	992	884	671	534	-11.6	-17.1	-12.4
NIH	570	565	563	521	474	387	334	-6.2	-13.7	-7.4
OTHER HHS	837	804	698	471	410	284	222	-16.5	-21.8	-17.3
NSF	71	77	113	125	119	102	93	6.2	-8.8	3.9
ALL OTHER FEDERAL	280	282	217	463	431	338	358	3.2	5.9	3.6
INSTITUTIONAL SUPPORT	3,158	3,320	3,556	3,934	4,527	4,633	4,868	6.6	5.1	6.4
OTHER OUTSIDE SUPPORT, TOTAL	529	573	629	721	723	644	694	3.3	7.8	4.0
ALL OTHER U.S.	493	533	584	672	682	606	662	3.5	9.2	4.3
FOREIGN	36	40	45	49	41	38	32	.9	-15.8	-1.7
SELF-SUPPORT	3,800	4,006	4,305	4,686	4,644	5,066	5,115	4.9	1.0	4.3
SOCIAL SCIENCES:										
TOTAL, ALL SOURCES	16,608	18,261	20,140	21,425	22,091	20,949	20,969	3.9	.1	3.4
FEDERAL, TOTAL	2,036	2,088	2,352	2,321	2,063	1,694	1,506	-3.0	-11.1	-4.2
DEPT OF DEFENSE	36	57	37	47	36	38	45	.9	18.4	3.2
DEPT OF HHS, TOTAL	1,186	1,256	1,352	954	864	615	403	-10.4	-34.5	-14.3
NIH	282	217	326	340	295	240	199	-2.7	-17.1	-4.9
OTHER HHS	904	1,039	1,026	614	569	375	204	-13.6	-45.6	-19.2
NSF	164	140	190	186	173	128	123	-4.0	-3.9	-4.0
ALL OTHER FEDERAL	650	635	773	1,134	990	913	935	5.8	2.4	5.3
INSTITUTIONAL SUPPORT	5,340	5,960	7,108	7,609	7,915	8,159	8,341	7.3	2.2	6.6
OTHER OUTSIDE SUPPORT, TOTAL	742	934	1,078	1,178	1,248	1,009	1,338	5.3	32.6	8.8
ALL OTHER U.S.	588	705	808	754	762	562	852	-.8	51.6	5.4
FOREIGN	154	229	270	424	486	447	486	19.4	8.7	17.8
SELF-SUPPORT	8,490	9,279	9,602	10,317	10,865	10,087	9,784	2.9	-3.0	2.0

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-23. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND TYPE OF MAJOR SUPPORT: 1976-77 AND 1979-83 1/

AREA AND TYPE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL AREAS:										
TOTAL, ALL TYPES	214,089	217,453	223,409	230,535	234,194	236,939	243,646	1.7	2.8	1.9
FELLOWSHIPS AND TRAINEESHIPS	37,485	39,203	39,066	38,901	37,653	35,979	35,368	-.7	-1.7	-.8
RESEARCH ASSISTANTSHIPS	42,717	43,896	48,410	50,781	51,946	51,828	54,198	3.3	4.6	3.5
TEACHING ASSISTANTSHIPS	48,312	48,665	49,588	51,838	53,800	56,068	57,950	2.5	3.4	2.6
OTHER TYPES OF SUPPORT	85,575	85,689	86,345	89,015	90,795	93,064	96,130	1.4	3.3	1.7
ENGINEERING:										
TOTAL, ALL TYPES	36,231	36,675	39,344	41,939	44,817	43,687	53,553	5.0	10.0	5.7
FELLOWSHIPS AND TRAINEESHIPS	4,583	4,460	4,374	4,603	5,032	5,416	5,596	2.8	3.3	2.9
RESEARCH ASSISTANTSHIPS	11,328	11,877	12,834	13,928	14,394	14,595	15,600	4.3	6.9	4.7
TEACHING ASSISTANTSHIPS	5,590	5,753	6,515	7,245	8,155	8,952	9,920	8.2	10.8	8.5
OTHER TYPES OF SUPPORT	14,730	14,585	15,621	16,163	17,236	19,724	22,437	5.0	13.8	6.2
SCIENCES:										
TOTAL, ALL TYPES	177,858	180,778	184,065	188,596	189,377	188,252	190,093	1.0	1.0	1.0
FELLOWSHIPS AND TRAINEESHIPS	32,902	34,743	34,692	34,298	32,621	30,563	29,772	-1.2	-2.6	-1.4
RESEARCH ASSISTANTSHIPS	31,389	32,019	35,576	36,853	37,552	37,233	38,598	2.9	3.7	3.0
TEACHING ASSISTANTSHIPS	42,722	42,912	43,073	44,593	45,645	47,116	48,030	1.6	1.9	1.7
OTHER TYPES OF SUPPORT	70,845	71,104	70,724	72,852	73,559	73,340	73,693	.6	.5	.6
PHYSICAL SCIENCES:										
TOTAL, ALL TYPES	21,590	21,747	21,797	22,254	22,600	23,330	24,476	1.3	4.9	1.8
FELLOWSHIPS AND TRAINEESHIPS	2,302	2,472	2,271	2,183	2,237	2,285	2,270	-.1	-.7	-.2
RESEARCH ASSISTANTSHIPS	6,789	6,810	7,722	8,258	8,524	8,683	9,066	4.2	4.4	4.2
TEACHING ASSISTANTSHIPS	10,202	10,131	9,576	9,894	9,976	10,361	10,905	.3	5.3	1.0
OTHER TYPES OF SUPPORT	2,297	2,334	2,228	1,919	1,863	2,001	2,235	-2.3	11.7	-.4
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL TYPES	9,668	10,019	10,171	10,265	10,491	10,873	11,428	2.0	5.1	2.4
FELLOWSHIPS AND TRAINEESHIPS	1,041	1,240	1,101	1,107	1,095	1,140	1,140	1.4	.0	1.2
RESEARCH ASSISTANTSHIPS	3,196	3,234	3,530	3,664	3,402	3,265	3,469	.4	6.2	1.2
TEACHING ASSISTANTSHIPS	2,257	2,255	2,438	2,563	2,541	2,737	2,748	3.3	.4	2.9
OTHER TYPES OF SUPPORT	3,169	3,290	3,052	2,931	3,453	3,731	4,071	2.8	9.1	3.6
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL TYPES	14,564	14,010	14,209	15,268	16,145	18,082	19,581	3.7	8.3	4.3
FELLOWSHIPS AND TRAINEESHIPS	1,296	1,288	1,377	1,258	1,272	1,251	1,323	-.6	5.8	.3
RESEARCH ASSISTANTSHIPS	1,528	1,508	1,615	1,796	1,800	1,973	2,144	4.4	8.7	5.0
TEACHING ASSISTANTSHIPS	6,575	6,345	6,445	6,782	7,278	7,772	8,459	2.8	8.8	3.7
OTHER TYPES OF SUPPORT	5,165	4,869	4,772	5,432	5,795	7,086	7,655	5.4	8.0	5.8
AGRICULTURAL SCIENCES:										
TOTAL, ALL TYPES	9,040	9,296	9,371	9,591	9,630	9,500	9,397	.8	-1.1	.6
FELLOWSHIPS AND TRAINEESHIPS	751	809	709	772	793	779	759	.4	-2.6	.2
RESEARCH ASSISTANTSHIPS	3,948	4,069	4,415	4,484	4,647	4,558	4,509	2.4	-1.1	1.9
TEACHING ASSISTANTSHIPS	779	825	825	888	805	883	879	2.1	-.5	1.7
OTHER TYPES OF SUPPORT	3,562	3,593	3,422	3,447	3,385	3,280	3,250	-1.4	-.9	-1.3
BIOLOGICAL SCIENCES:										
TOTAL, ALL TYPES	35,624	36,228	35,837	35,817	35,454	35,226	35,263	-.2	.1	-.1
FELLOWSHIPS AND TRAINEESHIPS	8,058	8,197	8,221	8,160	7,967	7,845	7,969	-.4	1.6	-.2
RESEARCH ASSISTANTSHIPS	7,731	8,024	9,247	9,545	9,801	9,774	10,014	4.0	2.5	3.8
TEACHING ASSISTANTSHIPS	9,134	9,198	8,888	9,120	9,037	9,155	8,977	*	-1.9	-.2
OTHER TYPES OF SUPPORT	10,701	10,809	9,481	8,992	8,649	8,452	8,303	-3.9	-1.8	-3.6
HEALTH SCIENCES:										
TOTAL, ALL TYPES	17,239	18,779	21,263	22,303	22,111	20,927	20,525	3.3	-1.9	2.5
FELLOWSHIPS AND TRAINEESHIPS	6,558	7,558	8,088	8,034	7,691	6,704	5,994	.4	-10.6	-1.3
RESEARCH ASSISTANTSHIPS	914	984	1,364	1,448	1,477	1,493	1,568	8.5	5.0	8.0
TEACHING ASSISTANTSHIPS	1,646	1,824	1,879	1,960	1,949	2,071	2,100	3.9	1.4	3.5
OTHER TYPES OF SUPPORT	8,121	8,413	9,932	10,861	10,994	10,659	10,863	4.6	1.9	4.2
PSYCHOLOGY:										
TOTAL, ALL TYPES	21,482	21,266	20,737	21,580	21,544	21,103	21,327	-.3	1.1	-.1
FELLOWSHIPS AND TRAINEESHIPS	4,321	4,183	3,600	3,447	3,167	2,915	2,529	-6.3	-13.2	-7.4
RESEARCH ASSISTANTSHIPS	2,261	2,312	2,343	2,342	2,664	2,510	2,676	1.8	6.6	2.4
TEACHING ASSISTANTSHIPS	4,124	4,220	4,220	4,424	4,604	4,550	4,655	1.7	2.3	1.7
OTHER TYPES OF SUPPORT	10,776	10,551	10,574	11,367	11,109	11,128	11,467	.5	3.0	.9
SOCIAL SCIENCES:										
TOTAL, ALL TYPES	48,651	49,433	50,680	51,518	51,402	49,211	48,096	.2	-2.3	-.2
FELLOWSHIPS AND TRAINEESHIPS	8,570	8,996	9,325	9,337	8,399	7,644	7,788	-1.9	1.9	-1.4
RESEARCH ASSISTANTSHIPS	5,022	5,078	5,340	5,316	5,237	4,977	5,152	-.1	3.5	.4
TEACHING ASSISTANTSHIPS	8,005	8,114	8,752	8,962	9,455	9,587	9,307	3.1	-2.9	2.2
OTHER TYPES OF SUPPORT	27,054	27,245	27,263	27,903	28,311	27,003	25,849	*	-4.3	-.6

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-24. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY AREA AND TYPE OF MAJOR SUPPORT: 1976-77 AND 1979-83 1/

AREA AND TYPE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL AREAS:										
TOTAL, ALL TYPES	156,251	157,768	160,065	165,067	167,067	169,837	175,349	1.4	3.2	1.7
FELLOWSHIPS AND TRAINEESHIPS	21,835	22,270	22,900	22,607	22,628	21,427	20,671	-.3	-3.5	-.8
RESEARCH ASSISTANTSHIPS	33,285	34,123	37,396	38,842	39,356	39,202	41,102	2.8	4.8	3.1
TEACHING ASSISTANTSHIPS	39,133	39,486	39,566	41,635	42,280	44,428	46,023	2.1	3.6	2.3
OTHER TYPES OF SUPPORT	61,998	61,919	60,203	61,963	62,803	64,780	67,546	.7	4.3	1.2
ENGINEERING:										
TOTAL, ALL TYPES	25,015	25,357	26,839	28,982	31,013	33,922	37,124	5.2	9.4	5.8
FELLOWSHIPS AND TRAINEESHIPS	2,412	2,359	2,283	2,510	2,794	2,907	3,003	3.2	3.3	3.2
RESEARCH ASSISTANTSHIPS	7,769	8,101	8,666	9,367	9,727	9,987	10,743	4.3	7.6	4.7
TEACHING ASSISTANTSHIPS	4,186	4,285	4,725	5,392	6,119	6,815	7,576	8.5	11.2	8.8
OTHER TYPES OF SUPPORT	10,648	10,612	11,165	11,713	12,373	14,213	15,802	4.9	11.2	5.8
SCIENCES:										
TOTAL, ALL TYPES	131,236	132,411	133,226	136,065	136,054	135,915	138,225	-.6	1.7	.7
FELLOWSHIPS AND TRAINEESHIPS	19,423	19,911	20,617	20,097	19,834	18,520	17,675	-.8	-4.6	-1.3
RESEARCH ASSISTANTSHIPS	25,516	26,022	28,730	29,475	29,629	29,215	30,359	2.3	3.9	2.5
TEACHING ASSISTANTSHIPS	34,947	35,171	34,841	36,243	36,161	37,613	38,447	1.2	2.2	1.4
OTHER TYPES OF SUPPORT	51,350	51,307	49,038	50,250	50,430	50,567	51,744	-.3	2.3	.1
PHYSICAL SCIENCES:										
TOTAL, ALL TYPES	15,300	15,399	15,460	15,793	16,050	16,722	17,578	1.5	5.1	2.0
FELLOWSHIPS AND TRAINEESHIPS	1,013	1,103	1,115	1,043	1,168	1,233	1,174	3.3	-4.8	2.1
RESEARCH ASSISTANTSHIPS	4,688	4,599	5,222	5,582	5,800	5,954	6,189	4.1	3.9	4.0
TEACHING ASSISTANTSHIPS	7,822	7,880	7,417	7,669	7,649	7,992	8,478	.4	6.1	1.2
OTHER TYPES OF SUPPORT	1,777	1,817	1,706	1,499	1,433	1,543	1,737	-2.3	12.6	-.3
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL TYPES	7,955	8,279	8,488	8,504	8,671	8,949	9,435	2.0	5.4	2.5
FELLOWSHIPS AND TRAINEESHIPS	672	793	742	767	781	822	803	3.4	-2.3	2.6
RESEARCH ASSISTANTSHIPS	2,580	2,619	2,871	2,925	2,723	2,538	2,717	-.3	7.1	.7
TEACHING ASSISTANTSHIPS	1,947	1,953	2,156	2,212	2,147	2,325	2,366	3.0	1.8	2.8
OTHER TYPES OF SUPPORT	2,756	2,914	2,719	2,600	3,020	3,264	3,549	2.9	8.7	3.7
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL TYPES	11,041	10,582	10,716	11,360	11,815	13,191	14,374	3.0	9.0	3.8
FELLOWSHIPS AND TRAINEESHIPS	597	528	684	597	659	611	639	.4	4.6	1.0
RESEARCH ASSISTANTSHIPS	937	924	1,049	1,196	1,174	1,279	1,387	5.3	8.4	5.8
TEACHING ASSISTANTSHIPS	5,384	5,272	5,315	5,541	5,896	6,334	6,933	2.7	9.5	3.7
OTHER TYPES OF SUPPORT	4,123	3,858	3,668	4,026	4,086	4,967	5,415	3.2	9.0	4.0
AGRICULTURAL SCIENCES:										
TOTAL, ALL TYPES	8,797	9,047	9,070	9,307	9,351	9,247	9,127	.8	-1.3	.5
FELLOWSHIPS AND TRAINEESHIPS	671	730	622	681	704	716	671	1.1	-6.3	.0
RESEARCH ASSISTANTSHIPS	3,848	3,973	4,295	4,365	4,524	4,439	4,390	2.4	-1.1	1.9
TEACHING ASSISTANTSHIPS	759	803	797	865	782	858	852	2.1	-.7	1.7
OTHER TYPES OF SUPPORT	3,519	3,541	3,356	3,396	3,341	3,234	3,214	-1.4	-.6	-1.3
BIOLOGICAL SCIENCES:										
TOTAL, ALL TYPES	26,903	27,357	26,765	26,815	26,558	26,052	26,094	-.5	.2	-.4
FELLOWSHIPS AND TRAINEESHIPS	4,272	4,283	4,559	4,410	4,425	4,282	4,230	*	-1.2	-.1
RESEARCH ASSISTANTSHIPS	6,672	7,031	7,820	8,035	8,027	7,978	8,238	3.0	3.3	3.1
TEACHING ASSISTANTSHIPS	7,675	7,711	7,405	7,600	7,458	7,505	7,377	-.4	-1.7	-.6
OTHER TYPES OF SUPPORT	8,284	8,332	6,981	6,770	6,648	6,287	6,249	-4.5	-.6	-3.9
HEALTH SCIENCES:										
TOTAL, ALL TYPES	13,636	14,563	15,910	16,525	16,193	15,660	15,579	2.3	-.5	1.9
FELLOWSHIPS AND TRAINEESHIPS	5,113	5,525	5,889	5,900	5,621	5,033	4,564	-.3	-9.3	-1.6
RESEARCH ASSISTANTSHIPS	807	850	1,154	1,242	1,247	1,289	1,324	8.1	2.7	7.3
TEACHING ASSISTANTSHIPS	1,494	1,646	1,717	1,794	1,720	1,798	1,818	3.1	1.1	2.8
OTHER TYPES OF SUPPORT	6,222	6,542	7,150	7,589	7,605	7,540	7,873	3.3	4.4	3.4
PSYCHOLOGY:										
TOTAL, ALL TYPES	13,992	13,567	12,824	13,089	13,043	12,984	13,172	-1.2	1.4	-.9
FELLOWSHIPS AND TRAINEESHIPS	2,723	2,560	2,267	2,111	2,012	1,807	1,572	-6.6	-13.0	-7.5
RESEARCH ASSISTANTSHIPS	1,835	1,787	1,936	1,871	1,998	1,845	2,072	.1	12.3	1.8
TEACHING ASSISTANTSHIPS	3,345	3,393	3,303	3,542	3,423	3,465	3,495	.6	.9	.6
OTHER TYPES OF SUPPORT	6,089	5,827	5,318	5,565	5,610	5,867	6,033	-.6	2.8	-.1
SOCIAL SCIENCES:										
TOTAL, ALL TYPES	33,612	33,617	33,993	34,672	34,373	33,110	32,866	-.3	-.7	-.3
FELLOWSHIPS AND TRAINEESHIPS	4,362	4,389	4,739	4,588	4,464	4,016	4,022	-1.4	.1	-1.2
RESEARCH ASSISTANTSHIPS	4,149	4,239	4,383	4,259	4,136	3,893	4,042	-1.1	3.8	-.4
TEACHING ASSISTANTSHIPS	6,521	6,513	6,731	7,020	7,086	7,336	7,128	2.0	-2.8	1.3
OTHER TYPES OF SUPPORT	18,580	18,476	18,140	18,805	18,687	17,865	17,674	-.7	-1.1	-.7

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-25. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY AREA AND TYPE OF MAJOR SUPPORT: 1976-77 AND 1979-83 1/

AREA AND TYPE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL AREAS:										
TOTAL, ALL TYPES	57,838	59,685	63,344	65,488	67,127	67,102	68,297	2.5	1.8	2.4
FELLOWSHIPS AND TRAINEESHIPS	15,650	16,933	16,166	16,294	15,025	14,552	14,690	-1.2	.9	-.9
RESEARCH ASSISTANTSHIPS	9,432	9,773	11,014	11,939	12,590	12,626	13,096	5.0	3.7	4.8
TEACHING ASSISTANTSHIPS	9,179	9,209	10,022	10,203	11,520	11,640	11,927	4.0	2.5	3.8
OTHER TYPES OF SUPPORT	23,577	23,770	26,142	27,052	27,992	28,284	28,584	3.1	1.1	2.8
ENGINEERING:										
TOTAL, ALL TYPES	11,216	11,318	12,505	12,957	13,804	14,765	16,429	4.7	11.3	5.6
FELLOWSHIPS AND TRAINEESHIPS	2,171	2,101	2,091	2,093	2,238	2,509	2,593	2.4	3.3	2.6
RESEARCH ASSISTANTSHIPS	3,559	3,776	4,168	4,561	4,667	4,608	4,857	4.4	5.4	4.5
TEACHING ASSISTANTSHIPS	1,404	1,468	1,790	1,853	2,036	2,137	2,344	7.3	9.7	7.6
OTHER TYPES OF SUPPORT	4,082	3,973	4,456	4,450	4,863	5,511	6,635	5.1	20.4	7.2
SCIENCES:										
TOTAL, ALL TYPES	46,622	48,367	50,839	52,531	53,323	52,337	51,868	1.9	-.9	1.5
FELLOWSHIPS AND TRAINEESHIPS	13,479	14,832	14,075	14,201	12,787	12,043	11,097	-1.9	-.4	-1.5
RESEARCH ASSISTANTSHIPS	5,873	5,997	6,846	7,378	7,923	8,018	8,239	5.3	2.8	5.0
TEACHING ASSISTANTSHIPS	7,775	7,774	8,232	8,350	9,484	9,503	9,583	3.4	.8	3.0
OTHER TYPES OF SUPPORT	19,495	19,797	21,686	22,602	23,129	22,773	21,949	2.6	-3.6	1.7
PHYSICAL SCIENCES:										
TOTAL, ALL TYPES	6,290	6,348	6,337	6,461	6,550	6,608	6,898	.8	4.4	1.3
FELLOWSHIPS AND TRAINEESHIPS	1,289	1,369	1,156	1,140	1,069	1,052	1,096	-3.3	4.2	-2.3
RESEARCH ASSISTANTSHIPS	2,101	2,211	2,500	2,676	2,724	2,729	2,877	4.5	5.4	4.6
TEACHING ASSISTANTSHIPS	2,380	2,251	2,159	2,225	2,327	2,369	2,427	-.1	2.4	.3
OTHER TYPES OF SUPPORT	520	517	522	420	430	458	498	-2.1	8.7	-.6
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL TYPES	1,713	1,740	1,683	1,761	1,820	1,924	1,993	2.0	3.6	2.2
FELLOWSHIPS AND TRAINEESHIPS	374	447	359	340	314	318	337	-1.7	6.0	-1.5
RESEARCH ASSISTANTSHIPS	616	615	659	739	679	727	752	2.8	3.4	2.9
TEACHING ASSISTANTSHIPS	310	302	332	351	394	412	382	4.9	-7.3	3.0
OTHER TYPES OF SUPPORT	413	376	333	331	433	467	522	2.1	11.8	3.4
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL TYPES	3,523	3,428	3,493	3,908	4,330	4,891	5,207	5.6	6.5	5.7
FELLOWSHIPS AND TRAINEESHIPS	699	760	693	661	613	640	684	-1.5	6.9	-.3
RESEARCH ASSISTANTSHIPS	591	584	566	600	626	694	757	2.7	9.1	3.6
TEACHING ASSISTANTSHIPS	1,191	1,073	1,130	1,241	1,382	1,438	1,526	3.2	6.1	3.6
OTHER TYPES OF SUPPORT	1,042	1,011	1,104	1,406	1,709	2,119	2,240	12.6	5.7	11.6
AGRICULTURAL SCIENCES:										
TOTAL, ALL TYPES	243	249	301	284	279	253	270	.7	6.7	1.5
FELLOWSHIPS AND TRAINEESHIPS	80	79	87	91	89	63	88	-3.9	39.7	1.4
RESEARCH ASSISTANTSHIPS	100	96	120	119	123	119	119	2.9	.0	2.5
TEACHING ASSISTANTSHIPS	20	22	28	23	23	25	27	3.8	8.0	4.4
OTHER TYPES OF SUPPORT	43	52	66	51	44	46	36	1.1	-21.7	-1.5
BIOLOGICAL SCIENCES:										
TOTAL, ALL TYPES	8,721	8,871	9,072	9,002	8,896	9,174	9,169	.8	-.1	.7
FELLOWSHIPS AND TRAINEESHIPS	3,786	3,914	3,662	3,750	3,542	3,563	3,739	-1.0	4.9	-.2
RESEARCH ASSISTANTSHIPS	1,059	993	1,427	1,510	1,774	1,796	1,776	9.2	-1.1	7.7
TEACHING ASSISTANTSHIPS	1,459	1,487	1,483	1,520	1,579	1,650	1,600	2.1	-3.0	1.3
OTHER TYPES OF SUPPORT	2,417	2,477	2,500	2,222	2,001	2,165	2,054	-1.8	-5.1	-2.3
HEALTH SCIENCES:										
TOTAL, ALL TYPES	3,603	4,216	5,353	5,778	5,918	5,267	4,946	6.5	-6.1	4.6
FELLOWSHIPS AND TRAINEESHIPS	1,445	2,033	2,199	2,134	2,070	1,671	1,430	2.5	-14.4	-.1
RESEARCH ASSISTANTSHIPS	107	134	210	206	230	204	244	11.4	19.6	12.5
TEACHING ASSISTANTSHIPS	152	178	162	166	229	273	282	10.3	3.3	9.2
OTHER TYPES OF SUPPORT	1,899	1,871	2,782	3,272	3,389	3,119	2,990	8.6	-4.1	6.7
PSYCHOLOGY:										
TOTAL, ALL TYPES	7,490	7,699	7,913	8,491	8,501	8,119	8,155	1.4	.4	1.2
FELLOWSHIPS AND TRAINEESHIPS	1,598	1,623	1,333	1,336	1,155	1,108	957	-5.9	-13.6	-7.1
RESEARCH ASSISTANTSHIPS	426	525	407	471	646	665	604	7.7	-9.2	5.1
TEACHING ASSISTANTSHIPS	779	827	917	882	1,181	1,085	1,160	5.7	6.9	5.9
OTHER TYPES OF SUPPORT	4,687	4,724	5,256	5,802	5,499	5,261	5,434	1.9	3.3	2.1
SOCIAL SCIENCES:										
TOTAL, ALL TYPES	15,039	15,816	16,687	16,846	17,029	16,101	15,230	1.1	-5.4	.2
FELLOWSHIPS AND TRAINEESHIPS	4,208	4,607	4,586	4,749	3,935	3,628	3,766	-2.4	3.8	-1.6
RESEARCH ASSISTANTSHIPS	873	839	957	1,057	1,101	1,084	1,110	3.7	2.4	3.5
TEACHING ASSISTANTSHIPS	1,484	1,601	2,021	1,942	2,369	2,251	2,179	7.2	-3.2	5.6
OTHER TYPES OF SUPPORT	8,474	8,769	9,123	9,098	9,624	9,138	8,175	1.3	-10.5	-.5

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-26. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY TYPE AND SOURCE OF MAJOR SUPPORT: 1976-77 AND 1979-83 1/

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL TYPES:										
TOTAL, ALL SOURCES	214,089	217,453	223,409	230,535	234,194	236,939	243,646	1.7	2.8	1.9
FEDERAL, TOTAL	48,594	50,378	52,871	52,939	50,897	47,206	47,402	-.5	.4	-.4
DEPT OF DEFENSE	4,798	4,[illegible]	4,998	5,239	5,647	5,861	6,898	3.4	17.7	5.3
DEPT OF HHS, TOTAL	20,366	21,0[illegible]	22,649	19,377	18,018	16,040	15,003	-3.9	-6.5	-4.3
NIH	11,360	10,92[illegible]	11,660	11,560	11,283	10,860	10,819	-.7	-.4	-.7
OTHER HHS	9,006	10,153	10,989	7,817	6,735	5,180	4,184	-8.8	-19.2	-10.4
NSF	8,962	9,023	9,275	9,243	9,084	9,207	9,476	.5	2.9	.8
ALL OTHER FEDERAL	14,468	15,281	15,949	19,080	18,148	16,098	16,025	1.8	-.5	1.5
INSTITUTIONAL SUPPORT	79,217	80,404	82,813	86,715	90,261	93,244	96,188	2.8	3.2	2.8
OTHER OUTSIDE SUPPORT, TOTAL	17,680	18,229	20,039	21,066	22,382	23,630	24,415	5.0	3.3	4.7
ALL OTHER U.S.	11,373	11,323	12,493	13,063	13,832	14,863	15,725	4.6	5.8	4.7
FOREIGN	6,307	6,906	7,546	8,003	8,550	8,767	8,690	5.6	-.9	4.7
SELF-SUPPORT	68,598	68,442	67,686	69,015	70,654	72,859	75,641	1.0	3.8	1.4
FELLOWSHIPS AND TRAINEESHIPS:										
TOTAL, ALL SOURCES	37,485	39,203	39,066	38,901	37,653	35,979	35,368	-.7	-1.7	-.8
FEDERAL, TOTAL	18,899	19,686	19,310	18,442	16,744	14,484	13,283	-4.3	-8.3	-4.9
DEPT OF DEFENSE	448	472	280	325	262	234	334	-10.3	42.7	-4.1
DEPT OF HHS, TOTAL	14,170	14,899	15,475	12,674	11,435	9,817	8,541	-5.9	-13.0	-7.0
NIH	6,528	6,256	6,229	5,817	5,529	5,371	5,089	-3.2	-5.3	-3.5
OTHER HHS	7,642	8,643	9,246	6,857	5,906	4,446	3,452	-8.6	-22.4	-10.7
NSF	1,765	1,809	1,582	1,508	1,381	1,374	1,255	-4.1	-1.4	-3.7
ALL OTHER FEDERAL	2,516	2,506	1,973	3,935	3,646	3,059	3,053	3.3	-.2	2.8
INSTITUTIONAL SUPPORT	11,337	11,741	12,748	12,756	13,011	13,016	13,558	2.3	4.2	2.6
OTHER OUTSIDE SUPPORT, TOTAL	7,249	7,776	7,008	7,703	7,898	8,479	8,527	2.6	.6	2.3
ALL OTHER U.S.	3,948	3,991	3,778	3,998	4,031	4,475	4,590	2.1	2.6	2.2
FOREIGN	3,301	3,785	3,230	3,705	3,867	4,004	3,937	3.3	-1.7	2.5
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:										
TOTAL, ALL SOURCES	42,717	43,896	48,410	50,781	51,946	51,828	54,198	3.3	4.6	3.5
FEDERAL, TOTAL	24,420	25,179	27,841	29,066	28,940	28,025	28,910	2.3	3.2	2.4
DEPT OF DEFENSE	2,538	2,637	2,795	2,924	3,280	3,460	3,919	5.[illegible]	13.3	6.4
DEPT OF HHS, TOTAL	5,356	5,272	6,143	5,968	6,011	5,721	5,933	1.1	3.7	1.5
NIH	4,455	4,307	4,991	5,371	5,454	5,206	5,386	2.6	3.5	2.7
OTHER HHS	901	965	1,152	597	557	515	547	-8.9	6.2	-6.9
NSF	7,036	7,041	7,445	7,604	7,578	7,723	8,031	[illegible].6	4.0	1.9
ALL OTHER FEDERAL	9,490	10,229	11,438	12,570	12,071	11,121	11,027	2.7	-.8	2.2
INSTITUTIONAL SUPPORT	13,872	14,163	15,029	15,990	16,704	17,011	17,537	3.5	3.1	3.4
OTHER OUTSIDE SUPPORT, TOTAL	4,425	4,554	5,540	5,725	6,302	6,792	7,751	7.4	14.1	8.3
ALL OTHER U.S.	4,130	4,219	4,853	5,192	5,704	6,211	7,193	7.0	15.8	8.2
FOREIGN	295	335	687	533	598	581	558	12.0	-4.0	9.5
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
TEACHING ASSISTANTSHIPS:										
TOTAL, ALL SOURCES	48,312	48,665	49,588	51,838	53,800	56,068	57,950	2.5	3.4	2.6
FEDERAL, TOTAL	563	586	549	603	549	382	469	-6.3	22.8	-2.6
DEPT OF DEFENSE	0	0	0	0	0	0	0	0	0	0
DEPT OF HHS, TOTAL	299	296	241	132	118	102	111	-16.4	8.8	-13.2
NIH	148	121	109	82	75	49	74	-16.8	51.0	-9.4
OTHER HHS	151	175	132	50	43	53	37	-16.0	-30.2	-18.2
NSF	44	35	27	30	58	24	25	-9.6	4.2	-7.8
ALL OTHER FEDERAL	220	255	281	441	373	256	333	2.6	30.1	6.1
INSTITUTIONAL SUPPORT	47,451	47,767	48,666	50,927	52,876	55,247	57,115	2.6	3.4	2.7
OTHER OUTSIDE SUPPORT, TOTAL	298	312	373	308	375	439	366	6.7	-16.6	3.0
ALL OTHER U.S.	298	312	373	308	375	439	366	6.7	-16.6	3.0
FOREIGN	0	0	0	0	0	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
OTHER TYPES OF SUPPORT:										
TOTAL, ALL SOURCES	85,575	85,689	86,345	89,015	90,795	93,064	96,130	1.4	3.3	1.7
FEDERAL, TOTAL	4,712	4,927	5,171	4,828	4,664	4,315	4,740	-1.5	9.8	.1
DEPT OF DEFENSE	1,812	1,884	1,923	1,990	2,105	2,167	2,645	3.0	22.1	5.6
DEPT OF HHS, TOTAL	541	614	790	603	494	400	418	-4.9	4.5	-3.6
NIH	229	244	331	290	225	234	270	-.4	15.4	2.4
OTHER HHS	312	370	459	313	229	166	148	-10.0	-10.9	-10.1
NSF	117	138	201	101	67	86	65	-5.0	-24.4	-8.4
ALL OTHER FEDERAL	2,242	2,291	2,257	2,134	2,038	1,662	1,612	-4.9	-3.0	-4.6
INSTITUTIONAL SUPPORT	6,557	6,733	6,370	7,042	7,670	7,970	7,978	3.3	.1	2.8
OTHER OUTSIDE SUPPORT, TOTAL	5,708	5,587	7,118	7,330	7,807	7,920	7,771	5.6	-1.9	4.5
ALL OTHER U.S.	2,997	2,801	3,489	3,565	3,722	3,738	3,576	3.8	-4.3	2.6
FOREIGN	2,711	2,786	3,629	3,765	4,085	4,182	4,195	7.5	.3	6.4
SELF-SUPPORT	68,598	68,442	67,686	69,815	70,654	72,859	75,641	1.0	3.8	1.4

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-27. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH U.S. CITIZENSHIP IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	179,689	180,597	178,659	181,864	181,596	181,637	183,740	.2	1.2	.3
ENGINEERING	24,010	23,346	23,133	24,436	25,616	27,875	31,144	2.5	11.7	3.8
AEROSPACE	713	705	631	759	882	944	1,078	4.8	14.2	6.1
AGRICULTURAL	281	335	371	338	374	398	425	6.0	6.8	6.1
BIOMEDICAL	652	599	696	653	696	709	817	1.4	15.2	3.3
CHEMICAL	2,120	2,25[illegible]	2,331	2,471	2,755	3,203	3,589	7.1	12.1	7.8
CIVIL	4,906	4,[illegible]75	4,696	4,815	5,212	5,490	5,682	1.9	3.5	2.1
ELECTRICAL	5,344	5,324	5,093	5,530	5,542	6,268	7,182	2.7	14.6	4.3
ENGINEERING SCIENCE	855	774	748	770	836	816	846	-.8	3.7	-.2
INDUSTRIAL	2,438	2,025	2,243	2,206	1,931	2,060	2,486	-2.8	20.7	.3
MECHANICAL	3,070	2,919	2,953	3,150	3,328	3,684	4,244	3.1	15.2	4.7
METALLURGICAL/MATERIALS	1,125	1,178	1,102	1,136	1,330	1,280	1,518	2.2	18.6	4.4
MINING	234	205	180	182	222	234	251	.0	7.3	1.0
NUCLEAR	838	767	631	600	605	569	591	-6.2	3.9	-4.9
PETROLEUM	99	100	105	160	198	214	321	13.7	50.0	18.3
ENGINEERING, N.E.C.	1,395	1,283	1,353	1,666	1,705	2,006	2,114	7.0	5.4	6.8
PHYSICAL SCIENCES	17,162	17,174	16,621	16,668	16,523	17,038	17,448	-.1	2.4	.2
ASTRONOMY	560	532	533	509	472	488	480	-2.3	-1.6	-2.2
CHEMISTRY	9,923	10,089	10,097	10,208	10,098	10,664	11,088	1.2	4.0	1.6
PHYSICS	6,612	6,486	5,944	5,893	5,901	5,838	5,834	-2.1	-.1	-1.8
PHYSICAL SCIENCES, N.E.C.	67	67	47	58	52	48	46	-5.4	-4.2	-5.2
ENVIRONMENTAL SCIENCES	8,691	8,936	8,930	8,930	9,026	9,269	9,788	1.1	5.6	1.7
ATMOSPHERIC SCIENCES	681	675	590	602	560	585	598	-2.5	2.2	-1.8
GEOSCIENCES	5,489	5,607	5,819	5,942	5,965	6,382	7,000	2.5	9.7	3.5
OCEANOGRAPHY	1,325	1,399	1,303	1,322	1,344	1,213	1,187	-1.5	-2.1	-1.6
ENVIRONMENTAL SCIENCES, N.E.C.	1,196	1,295	1,218	1,064	1,157	1,089	1,003	-1.5	-7.9	-2.5
MATHEMATICAL/COMPUTER SCIENCES	11,380	10,622	9,869	10,243	10,419	11,590	11,964	.3	3.2	.7
COMPUTER SCIENCE	3,278	3,189	3,532	4,030	4,260	5,137	5,728	7.8	11.5	8.3
MATHEMATICS AND APPLIED MATHEMATICS	7,109	6,495	5,523	5,331	5,318	5,633	5,415	-3.8	-3.9	-3.8
STATISTICS	993	938	814	882	841	820	821	-3.1	.1	-2.7
LIFE SCIENCES	55,187	57,447	58,292	59,226	58,186	56,343	55,217	.3	-2.0	*
AGRICULTURAL SCIENCES	7,182	7,449	7,338	7,432	7,342	7,219	7,023	.1	-2.7	-.3
BIOLOGICAL SCIENCES	32,092	32,563	31,644	31,471	30,817	30,355	29,913	-.9	-1.5	-1.0
ANATOMY	1,006	996	959	907	877	849	861	-2.8	1.4	-2.2
BIOCHEMISTRY	3,113	3,188	3,213	3,220	3,160	3,178	3,241	.3	2.0	.6
BIOLOGY	8,454	8,315	7,563	7,332	6,992	6,882	6,824	-3.4	-.8	-3.0
BIOMETRY/EPIDEMIOLOGY	685	802	837	901	839	769	720	1.9	-6.4	.7
BIOPHYSICS	504	469	426	420	396	353	363	-5.8	2.8	-4.6
BOTANY	2,820	2,929	2,705	2,635	2,489	2,554	2,411	-1.6	-5.6	-2.2
CELL BIOLOGY	655	714	794	865	907	1,007	1,009	7.4	.2	6.4
ECOLOGY	758	895	769	880	859	825	758	1.4	-8.1	.0
ENTOMOLOGY/PARASITOLOGY	1,174	1,155	1,238	1,298	1,189	1,113	1,065	-.9	-4.3	-1.4
GENETICS	695	801	738	739	736	766	777	1.6	1.4	1.6
MICROBIOLOGY	3,277	3,317	3,101	3,153	3,052	3,068	3,141	-1.1	2.4	-.6
NUTRITION	1,852	2,070	2,192	2,167	2,294	2,205	2,093	3.0	-5.1	1.8
PATHOLOGY	819	824	881	865	866	842	860	.5	2.1	.7
PHARMACOLOGY	1,438	1,513	1,656	1,699	1,714	1,696	1,711	2.8	.9	2.5
PHYSIOLOGY	1,838	1,799	1,714	1,682	1,744	1,617	1,577	-2.1	-2.5	-2.2
ZOOLOGY	2,701	2,463	2,268	2,123	2,099	1,989	1,910	-5.0	-4.0	-4.8
BIOSCIENCES, N.E.C.	303	313	590	585	604	642	592	13.3	-7.8	10.0
HEALTH SCIENCES	15,913	17,435	19,310	20,323	20,027	18,769	18,281	2.8	-2.6	2.0
ANESTHESIOLOGY	4	3	17	12	15	19	27	29.7	42.1	31.4
CANCER/ONCOLOGY	49	59	48	44	43	65	72	4.8	10.8	5.7
CARDIOLOGY	0	3	3	12	2	3	3	**	.0	**
DENTISTRY	624	643	713	665	588	598	606	-.7	1.3	-.4
ENDOCRINOLOGY	28	28	42	47	43	44	55	7.8	25.0	10.1
GASTROENTEROLOGY	8	8	0	0	2	1	0	-29.3	-100.0	-100.0
HEMATOLOGY	3	5	13	8	9	6	9	12.2	50.0	17.0
NEUROLOGY	204	211	212	197	161	176	217	-2.4	23.3	.9
NURSING	3,761	5,110	5,959	6,067	6,515	5,985	5,568	8.1	-7.0	5.8
OBSTETRICS/GYNECOLOGY	44	20	25	4	8	9	13	-23.2	44.4	-16.0
OPHTHALMOLOGY	8	9	4	13	16	6	6	-4.7	.0	-4.0
OTORHINOLARYNGOLOGY	47	41	13	14	11	11	5	-21.5	-54.5	-27.4
PEDIATRICS	138	107	116	119	126	125	114	-1.6	-8.8	-2.7
PHARMACEUTICAL SCIENCES	1,019	1,152	1,128	1,180	1,136	1,109	1,116	1.4	.6	1.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,973	2,799	3,792	3,935	3,865	3,334	3,211	1.9	-3.7	1.1
PSYCHIATRY	110	124	116	59	57	62	73	-9.1	17.7	-5.7
PULMONARY DISEASE	0	3	1	15	9	9	2	**	-77.8	**
RADIOLOGY	234	236	181	196	200	171	129	-5.1	-24.6	-8.2
SPEECH PATHOLOGY/AUDIOLOGY	4,544	4,476	4,182	4,516	4,222	4,292	4,203	-.9	-2.1	-1.1
SURGERY	108	90	54	71	73	73	59	-6.3	-19.2	-8.3
VETERINARY SCIENCES	235	282	296	271	243	271	239	2.4	-11.8	.2
CLINICAL MEDICINE, N.E.C.	162	197	204	247	200	249	240	7.4	-3.6	5.8
HEALTH RELATED, N.E.C.	1,610	1,829	2,191	2,631	2,483	2,151	2,316	4.9	7.7	5.3
PSYCHOLOGY	20,910	20,644	19,769	20,526	20,712	20,216	20,422	-.6	1.0	-.3
SOCIAL SCIENCES	42,349	42,428	42,045	41,835	41,114	39,306	37,757	-1.2	-3.9	-1.6
AGRICULTURAL ECONOMICS	1,346	1,329	1,285	1,291	1,258	1,266	1,269	-1.0	.2	-.8
ANTHROPOLOGY	4,639	4,638	4,143	4,087	3,822	3,648	3,525	-3.9	-3.4	-3.8
ECONOMICS (EXCEPT AGRICULTURAL)	5,297	5,362	5,108	5,592	5,565	5,722	5,537	1.3	-3.2	.6
GEOGRAPHY	1,939	1,795	1,549	1,695	1,702	1,602	1,648	-3.1	2.9	-2.3
HISTORY AND PHILOSOPHY OF SCIENCE	246	232	204	216	187	188	189	-4.4	.5	-3.7
LINGUISTICS	1,748	1,441	1,637	1,494	1,499	1,436	1,479	-3.2	3.0	-2.4
POLITICAL SCIENCE	10,142	10,107	10,380	9,755	10,201	9,796	9,343	-.6	-4.6	-1.2
SOCIOLOGY	5,354	5,069	4,339	4,398	4,077	3,679	3,511	-6.1	-4.6	-5.8
SOCIOLOGY/ANTHROPOLOGY	614	658	515	489	426	480	469	-4.0	-2.3	-3.8
SOCIAL SCIENCES, N.E.C.	11,024	11,797	12,885	12,818	12,377	11,489	10,787	.7	-6.1	-.3

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-28. — FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	34,400	36,856	44,750	48,671	52,598	55,302	59,906	8.2	8.3	8.2
ENGINEERING	12,221	13,329	16,211	17,503	19,201	20,812	22,409	9.3	7.7	9.0
AEROSPACE	440	473	520	565	598	575	747	4.6	29.9	7.9
AGRICULTURAL	248	285	274	293	298	341	341	5.5	.0	5.7
BIOMEDICAL	103	116	131	135	157	199	195	11.6	-2.0	9.5
CHEMICAL	1,537	1,586	1,836	1,960	2,166	2,321	2,201	7.1	-5.2	5.3
CIVIL	1,986	2,354	3,046	3,295	3,596	3,937	4,275	12.1	8.6	11.6
ELECTRICAL	2,719	3,012	3,758	4,163	4,614	5,009	5,661	10.7	13.0	11.0
ENGINEERING SCIENCE	280	337	305	361	368	436	493	7.7	13.1	8.4
INDUSTRIAL	1,037	1,187	1,383	1,370	1,501	1,530	1,431	6.7	-6.5	4.7
MECHANICAL	1,791	1,856	2,384	2,586	3,009	3,444	3,955	11.5	14.8	12.0
METALLURGICAL/MATERIALS	728	763	1,018	1,100	1,106	1,173	1,168	8.3	-.4	7.0
MINING	166	153	112	136	150	117	153	-5.7	30.8	-1.2
NUCLEAR	384	387	444	443	427	473	461	3.5	-2.5	2.6
PETROLEUM	224	201	231	201	192	256	286	2.3	11.7	3.6
ENGINEERING, N.E.C.	578	619	769	901	1,019	1,001	1,042	9.6	4.1	8.8
PHYSICAL SCIENCES	4,428	4,573	5,176	5,586	6,077	6,292	7,028	6.0	11.7	6.8
ASTRONOMY	69	71	81	84	93	102	105	6.7	2.9	6.2
CHEMISTRY	2,466	2,488	2,745	2,868	3,064	3,080	3,405	3.8	10.6	4.7
PHYSICS	1,888	2,004	2,345	2,626	2,913	3,105	3,513	8.6	13.1	9.3
PHYSICAL SCIENCES, N.E.C.	5	10	5	8	7	5	5	.0	.0	.0
ENVIRONMENTAL SCIENCES	977	1,083	1,241	1,335	1,465	1,604	1,640	[illegible]	2.2	7.7
ATMOSPHERIC SCIENCES	133	128	149	144	179	186	180	[illegible]	-3.2	4.4
GEOSCIENCES	617	698	734	810	877	903	908	6.6	.6	5.7
OCEANOGRAPHY	143	150	185	208	245	338	360	15.4	6.5	14.1
ENVIRONMENTAL SCIENCES, N.E.C.	84	107	173	173	164	177	192	13.2	8.5	12.5
MATHEMATICAL/COMPUTER SCIENCES	3,184	3,388	4,340	5,025	5,726	6,492	7,617	12.6	17.3	13.3
COMPUTER SCIENCE	1,005	1,007	1,541	1,870	2,205	2,771	3,530	18.4	27.4	19.7
MATHEMATICS AND APPLIED MATHEMATICS	1,686	1,848	2,203	2,528	2,821	2,975	3,351	9.9	12.6	10.3
STATISTICS	493	533	596	627	700	746	736	7.1	-1.3	5.9
LIFE SCIENCES	6,716	6,856	8,179	8,485	9,009	9,310	9,968	5.6	7.1	5.8
AGRICULTURAL SCIENCES	1,858	1,847	2,033	2,159	2,288	2,281	2,374	3.5	4.1	3.6
BIOLOGICAL SCIENCES	3,532	3,665	4,193	4,346	4,637	4,871	5,350	5.5	9.8	6.1
ANATOMY	54	66	82	83	86	88	76	[illegible]	-13.6	5.0
BIOCHEMISTRY	394	420	436	497	589	654	774	[illegible]	18.3	10.1
BIOLOGY	563	563	667	720	733	742	862	[illegible]	16.2	6.3
BIOMETRY/EPIDEMIOLOGY	66	92	130	144	160	150	157	[illegible]	4.7	13.2
BIOPHYSICS	69	84	72	56	61	70	80	[illegible]	14.3	2.1
BOTANY	454	481	515	519	535	589	602	[illegible]	2.2	4.1
CELL BIOLOGY	63	63	65	67	82	103	120	8.5	16.5	9.6
ECOLOGY	31	32	50	67	72	80	77	17.1	-3.8	13.9
ENTOMOLOGY/PARASITOLOGY	242	234	225	227	263	227	240	-1.1	5.7	-.1
GENETICS	90	104	94	98	90	111	142	3.6	27.9	6.7
MICROBIOLOGY	297	303	385	406	410	431	503	6.4	16.7	7.8
NUTRITION	636	676	753	748	800	821	802	4.3	-2.3	3.4
PATHOLOGY	119	113	149	162	184	172	208	6.3	20.9	8.3
PHARMACOLOGY	151	153	195	185	199	243	245	8.3	.8	7.2
PHYSIOLOGY	131	111	178	171	180	188	215	6.2	14.4	7.3
ZOOLOGY	131	126	137	131	128	129	148	-.3	14.7	1.8
BIOSCIENCES, N.E.C.	41	44	60	65	65	73	99	10.1	35.6	13.4
HEALTH SCIENCES	1,326	1,344	1,953	1,980	2,084	2,158	2,244	8.5	4.0	7.8
ANESTHESIOLOGY	1	0	1	1	1	0	0	-100.0	**	-100.0
CANCER/ONCOLOGY	18	16	13	10	10	4	1	-22.[illegible]	-75.0	-33.8
CARDIOLOGY	0	0	0	5	1	0	0	**	**	**
DENTISTRY	134	138	211	223	173	129	122	-.[illegible]	-5.4	-1.3
ENDOCRINOLOGY	5	3	1	1	3	6	9	3.[illegible]	50.0	8.8
GASTROENTEROLOGY	0	0	0	0	1	0	0	**	**	**
HEMATOLOGY	0	2	1	0	0	0	0	**	**	**
NEUROLOGY	7	14	13	15	14	12	27	9.4	125.0	21.3
NURSING	70	146	182	173	220	197	149	18.8	-24.4	11.4
OBSTETRICS/GYNECOLOGY	8	5	8	1	2	6	2	-4.7	-66.7	-18.0
OPHTHALMOLOGY	0	0	1	2	3	2	1	**	-50.0	**
OTORHINOLARYNGOLOGY	12	3	0	0	0	0	0	-100.0	**	-100.0
PEDIATRICS	5	5	3	8	19	19	24	24.9	26.3	25.1
PHARMACEUTICAL SCIENCES	403	425	476	460	536	581	612	6.3	5.3	6.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	300	245	499	578	578	695	710	15.0	2.2	13.1
PSYCHIATRY	4	3	4	2	0	6	7	7.0	16.7	8.3
PULMONARY DISEASE	0	0	0	0	0	1	0	**	-100.0	**
RADIOLOGY	36	34	39	37	37	37	40	.5	8.1	1.5
SPEECH PATHOLOGY/AUDIOLOGY	118	104	209	190	209	187	238	8.0	27.3	10.5
SURGERY	20	14	12	14	10	14	14	-5.8	.0	-5.0
VETERINARY SCIENCES	86	97	127	111	107	85	98	-.2	15.3	1.9
CLINICAL MEDICINE, N.E.C.	20	21	22	25	26	41	53	12.7	29.3	14.9
HEALTH RELATED, N.E.C.	79	69	131	124	134	136	137	9.5	.7	8.2
PSYCHOLOGY	572	622	968	1,054	832	847	905	7.6	2.0	6.8
SOCIAL SCIENCES	6,302	7,005	8,635	9,683	10,288	9,905	10,339	7.8	4.4	7.3
AGRICULTURAL ECONOMICS	590	627	657	737	757	690	725	2.6	5.1	3.0
ANTHROPOLOGY	253	286	321	389	422	379	399	7.0	5.3	6.7
ECONOMICS (EXCEPT AGRICULTURAL)	2,489	2,671	3,015	3,355	3,524	3,365	3,388	5.2	.7	4.5
GEOGRAPHY	230	237	327	354	344	375	367	8.5	-2.1	6.9
HISTORY AND PHILOSOPHY OF SCIENCE	24	25	30	25	30	35	40	6.5	14.3	7.6
LINGUISTICS	400	458	612	740	752	709	837	10.0	18.1	11.1
POLITICAL SCIENCE	1,114	1,376	1,927	2,177	2,344	2,315	2,426	13.0	4.8	11.8
SOCIOLOGY	634	655	803	893	1,018	964	1,071	7.2	11.1	7.8
SOCIOLOGY/ANTHROPOLOGY	61	76	108	100	98	132	127	13.7	-3.8	11.0
SOCIAL SCIENCES, N.E.C.	507	594	835	913	999	941	959	10.9	1.9	9.5

1/ DISTRIBUTION BY CITIZENSHIP HAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-29. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	84,070	89,116	93,227	97,171	103,134	105,774	109,857	114,630	4.6	4.3	4.5
ENGINEERING	26,680	27,748	27,212	27,808	28,204	29,556	29,491	32,420	1.7	9.9	2.8
AEROSPACE	296	318	315	325	406	396	414	551	5.8	33.1	9.3
AGRICULTURAL	110	89	124	95	111	130	136	203	3.6	49.3	9.1
BIOMEDICAL	173	155	194	179	175	159	156	173	-1.7	10.9	.0
CHEMICAL	1,413	1,228	1,286	1,253	1,428	1,343	1,405	1,562	-.1	11.2	1.4
CIVIL	4,429	4,571	4,441	4,539	4,464	4,493	4,104	4,549	-1.3	10.8	.4
ELECTRICAL	7,148	8,020	8,144	7,967	8,447	8,744	9,305	10,269	4.5	10.4	5.3
ENGINEERING SCIENCE	585	509	539	463	502	549	588	642	.1	9.2	1.3
INDUSTRIAL	6,550	6,438	5,827	6,488	5,620	5,756	5,418	5,816	-3.1	7.3	-1.7
MECHANICAL	3,007	3,357	3,254	3,217	3,425	3,576	3,639	3,920	3.2	7.7	3.9
METALLURGICAL/MATERIALS	479	549	526	536	603	611	577	650	3.2	12.7	4.5
MINING	104	87	83	91	88	72	73	94	-5.7	28.8	-1.4
NUCLEAR	366	318	264	239	198	251	259	151	-5.6	-41.7	-11.9
PETROLEUM	53	78	91	87	130	128	110	117	12.9	6.4	12.0
ENGINEERING, N.E.C.	1,967	2,031	2,096	2,329	2,607	3,348	3,307	3,723	9.0	12.6	9.5
PHYSICAL SCIENCES	3,236	3,069	3,221	3,127	3,139	3,180	3,169	3,225	-.3	1.8	*
ASTRONOMY	65	46	40	38	35	32	42	33	-7.0	-21.4	-9.2
CHEMISTRY	2,015	2,026	2,122	2,044	2,029	2,082	2,034	2,042	.2	.4	.2
PHYSICS	1,139	983	1,033	1,030	1,060	1,050	1,075	1,142	-1.0	6.2	*
PHYSICAL SCIENCES, N.E.C.	17	14	26	15	15	16	18	8	1.0	-55.6	-10.2
ENVIRONMENTAL SCIENCES	2,0[illegible]	2,282	2,246	2,404	2,530	2,572	2,884	2,855	5.7	-1.0	4.7
ATMOSPHERIC SCIENCES	103	111	118	101	124	134	106	106	.5	.0	.4
GEOSCIENCES	1,141	1,210	1,267	1,420	1,373	1,445	1,761	1,778	7.5	1.0	6.5
OCEANOGRAPHY	270	404	342	341	317	344	383	414	6.0	8.1	6.3
ENVIRONMENTAL SCIENCES, N.E.C.	555	557	519	542	716	649	634	557	2.2	-12.1	.1
MATHEMATICAL/COMPUTER SCIENCES	7,154	7,116	7,801	8,459	9,741	11,000	12,252	13,884	9.4	13.3	9.9
COMPUTER SCIENCE	2,684	3,036	3,903	4,415	5,484	6,676	7,668	9,264	19.1	20.8	19.4
MATHEMATICS AND APPLIED MATHEMATICS	4,109	3,743	3,550	3,701	3,882	4,011	4,239	4,268	.5	.7	.5
STATISTICS	361	337	348	343	375	313	345	352	-.8	2.0	-.4
LIFE SCIENCES	15,281	19,041	20,700	20,991	22,949	23,713	25,050	26,110	8.6	4.2	8.0
AGRICULTURAL SCIENCES	1,561	1,651	1,829	1,923	1,988	1,717	2,077	2,118	4.9	2.0	4.5
BIOLOGICAL SCIENCES	6,338	6,929	7,161	6,744	6,859	6,529	6,651	6,410	.8	-3.6	.2
ANATOMY	98	126	130	92	92	109	137	116	5.7	-15.3	2.4
BIOCHEMISTRY	220	213	276	275	274	273	258	216	2.7	-16.3	-.3
BIOLOGY	2,844	2,842	2,801	2,659	2,730	2,427	2,246	2,038	-3.9	-9.3	-4.6
BIOMETRY/EPIDEMIOLOGY	119	164	162	161	214	183	247	279	12.9	13.0	12.9
BIOPHYSICS	21	17	12	27	9	6	17	13	-3.5	-23.5	-6.6
BOTANY	429	411	424	355	407	433	459	392	1.1	-14.6	-1.8
CELL BIOLOGY	44	48	37	35	33	29	33	44	-4.7	33.3	.0
ECOLOGY	96	93	120	135	183	117	113	127	2.8	12.4	4.1
ENTOMOLOGY/PARASITOLOGY	179	213	203	234	197	212	200	170	1.9	-15.0	-.7
GENETICS	71	73	88	90	75	61	63	67	-2.0	6.3	-.8
MICROBIOLOGY	516	581	608	492	419	427	493	455	-.8	-7.7	-1.8
NUTRITION	526	849	899	731	938	1,027	1,077	1,201	12.7	11.5	12.5
PATHOLOGY	306	379	368	390	363	354	399	391	4.5	-2.0	3.6
PHARMACOLOGY	116	125	142	145	121	100	134	139	2.4	.7	2.2
PHYSIOLOGY	192	148	291	300	251	220	253	228	4.7	-9.9	2.5
ZOOLOGY	412	441	451	458	396	357	353	365	-2.5	3.4	-1.7
BIOSCIENCES, N.E.C.	149	206	149	165	157	194	169	173	2.1	2.4	2.2
HEALTH SCIENCES	7,382	10,461	11,710	12,324	14,102	15,467	16,322	17,582	14.1	7.7	13.2
ANESTHESIOLOGY	0	2	3	2	4	4	19	16	**	-15.8	**
CANCER/ONCOLOGY	5	0	1	2	2	2	2	1	-14.2	-50.0	-20.5
CARDIOLOGY	2	2	0	0	0	0	0	0	-100.0	**	-100.0
DENTISTRY	131	179	188	105	114	181	109	88	-3.0	-19.3	-5.5
ENDOCRINOLOGY	3	1	1	6	5	5	3	0	.0	-100.0	-100.0
GASTROENTEROLOGY	0	0	0	0	0	1	0	0	**	**	**
HEMATOLOGY	1	11	8	6	8	0	1	1	.0	.0	.0
NEUROLOGY	7	8	2	7	8	2	2	3	-10.8	50.0	-11.4
NURSING	2,791	4,731	5,247	5,460	6,510	7,336	8,115	9,207	19.5	13.5	18.6
OBSTETRICS/GYNECOLOGY	7	2	3	3	1	3	4	2	-8.9	-50.0	-16.4
OPHTHALMOLOGY	5	7	1	1	1	3	3	3	-8.2	.0	-7.0
OTORHINOLARYNGOLOGY	4	1	1	0	0	0	1	1	-20.6	.0	-18.0
PEDIATRICS	72	40	43	12	11	4	10	13	-28.0	30.0	-21.7
PHARMACEUTICAL SCIENCES	795	867	932	808	768	851	806	857	.2	6.3	1.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,136	1,412	1,676	2,008	2,500	2,687	2,647	2,573	15.[illegible]	-2.8	12.4
PSYCHIATRY	33	23	23	13	2	49	57	69	9.5	21.1	11.1
PULMONARY DISEASE	0	0	0	0	0	0	2	0	**	-100.0	**
RADIOLOGY	15	41	33	63	50	40	82	62	32.7	-24.4	22.5
SPEECH PATHOLOGY/AUDIOLOGY	1,497	1,841	2,096	2,070	2,042	2,114	2,277	2,351	7.2	3.2	6.7
SURGERY	42	50	37	25	24	34	25	22	-8.3	-12.0	-8.8
VETERINARY SCIENCES	79	87	94	97	114	108	90	103	2.2	14.4	3.9
CLINICAL MEDICINE, N.E.C.	51	84	113	116	125	144	128	116	15.8	-9.7	12.5
HEALTH RELATED, N.E.C.	706	1,072	1,208	1,520	1,813	1,899	1,944	2,094	18.4	7.7	16.8
PSYCHOLOGY	6,608	6,792	7,200	7,236	7,804	7,508	7,979	7,768	3.2	-2.6	2.3
SOCIAL SCIENCES	23,042	23,068	24,847	27,146	28,767	28,245	29,032	28,368	3.9	-2.3	3.0
AGRICULTURAL ECONOMICS	223	242	241	256	273	220	267	243	3.0	-9.0	1.2
ANTHROPOLOGY	1,314	1,264	1,365	1,447	1,447	1,561	1,661	1,524	4.0	-8.2	2.1
ECONOMICS (EXCEPT AGRICULTURAL)	3,185	3,082	3,075	3,163	3,284	3,318	3,565	3,515	1.9	-1.4	1.4
GEOGRAPHY	820	766	757	705	674	690	728	612	-2.0	-15.9	-4.1
HISTORY AND PHILOSOPHY OF SCIENCE	52	43	40	31	39	31	33	24	-7.3	-27.3	-10.5
LINGUISTICS	389	496	431	677	638	759	529	497	5.3	-6.0	3.6
POLITICAL SCIENCE	8,580	8,408	9,474	11,275	12,515	11,456	11,648	10,612	5.3	-9.1	3.1
SOCIOLOGY	2,257	2,049	2,095	2,060	1,925	1,942	2,010	1,809	-1.9	-10.0	-3.1
SOCIOLOGY/ANTHROPOLOGY	552	532	567	515	506	497	430	418	-4.1	-2.8	-3.9
SOCIAL SCIENCES, N.E.C.	5,670	6,186	6,802	7,017	7,466	7,771	8,141	9,114	6.2	12.0	7.0

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-30. — MALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-83 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1983	1977-82	1982-83	1977-83
TOTAL, ALL FIELDS	63,396	64,415	66,804	66,451	66,975	69,005	1.1	3.0	1.4
ENGINEERING	26,496	25,783	25,990	26,864	26,415	28,732	-.1	8.8	1.4
AEROSPACE	312	312	386	380	377	507	3.9	34.5	8.4
AGRICULTURAL	87	91	110	129	129	188	8.2	45.7	13.7
BIOMEDICAL	143	168	144	135	120	142	-3.4	18.3	-.1
CHEMICAL	1,136	1,087	1,227	1,124	1,198	1,339	1.1	11.8	2.8
CIVIL	4,338	4,216	4,084	4,102	3,646	4,033	-3.4	10.6	-1.2
ELECTRICAL	7,711	7,517	8,044	8,237	8,644	9,384	2.3	8.6	3.3
ENGINEERING SCIENCE	486	408	447	467	485	533	*	9.9	1.6
INDUSTRIAL	6,108	5,885	4,994	4,983	4,630	4,873	-5.4	5.2	-3.7
MECHANICAL	3,237	3,038	3,235	3,320	3,381	3,626	.9	7.2	1.9
METALLURGICAL/MATERIALS	516	475	534	519	474	536	-1.7	13.1	.6
MINING	86	89	87	70	68	88	-4.6	29.4	.4
NUCLEAR	309	229	190	239	246	141	-4.5	-42.7	-12.3
PETROLEUM	75	85	116	110	101	108	6.1	6.9	6.3
ENGINEERING, N.E.C.	1,952	2,183	2,390	3,049	2,916	3,234	8.4	10.9	8.8
PHYSICAL SCIENCES	2,517	2,470	2,455	2,440	2,452	2,484	-.5	1.3	-.2
ASTRONOMY	39	31	25	24	35	26	-2.1	-25.7	-6.5
CHEMISTRY	1,565	1,496	1,473	1,475	1,451	1,445	-1.5	-.4	-1.3
PHYSICS	902	930	948	934	956	1,005	1.2	5.1	1.8
PHYSICAL SCIENCES, N.E.C.	12	13	9	7	10	8	-3.6	-20.0	-6.5
ENVIRONMENTAL SCIENCES	1,948	1,915	1,960	1,925	2,148	2,084	2.0	-3.0	1.1
ATMOSPHERIC SCIENCES	105	91	105	118	97	94	-1.6	-3.1	-1.8
GEOSCIENCES	997	1,112	1,095	1,099	1,324	1,287	5.8	-2.8	4.3
OCEANOGRAPHY	359	281	250	248	285	318	-4.5	11.6	-2.0
ENVIRONMENTAL SCIENCES, N.E.C.	487	431	510	464	442	385	-1.9	-12.9	-3.8
MATHEMATICAL/COMPUTER SCIENCES	5,309	6,225	7,171	7,858	8,530	9,484	9.9	11.2	10.2
COMPUTER SCIENCE	2,473	3,474	4,231	4,906	5,502	6,443	17.3	17.1	17.3
MATHEMATICS AND APPLIED MATHEMATICS	2,605	2,525	2,677	2,736	2,775	2,795	1.3	.7	1.2
STATISTICS	231	226	263	216	253	246	1.8	-2.8	1.1
LIFE SCIENCES	8,350	8,210	8,592	8,312	8,134	7,842	-.5	-3.6	-1.0
AGRICULTURAL SCIENCES	1,393	1,518	1,563	1,374	1,589	1,590	2.7	.6	2.1
BIOLOGICAL SCIENCES	4,219	3,914	3,814	3,355	3,367	3,111	-4.4	-7.6	-5.0
ANATOMY	83	59	58	66	89	74	1.4	-16.9	-1.9
BIOCHEMISTRY	142	171	174	169	147	118	.7	-19.7	-3.0
BIOLOGY	1,860	1,559	1,629	1,379	1,259	1,045	-7.5	-17.0	-9.2
BIOMETRY/EPIDEMIOLOGY	84	85	105	84	108	123	5.2	13.9	6.6
BIOPHYSICS	16	21	7	4	16	10	-2.6	-28.6	-7.5
BOTANY	306	237	268	269	276	241	-.7	-18.6	-3.9
CELL BIOLOGY	34	25	23	17	22	26	-8.3	18.2	-4.4
ECOLOGY	71	98	130	76	70	92	-.3	31.4	4.4
ENTOMOLOGY/PARASITOLOGY	176	187	151	164	137	121	-4.9	-11.7	-6.1
GENETICS	29	51	30	19	20	25	-7.2	25.0	-2.4
MICROBIOLOGY	307	289	226	207	248	222	-4.2	-10.5	-5.3
NUTRITION	219	165	202	171	207	258	-1.1	24.6	2.8
PATHOLOGY	248	255	214	177	197	197	-4.5	.0	-3.8
PHARMACOLOGY	97	91	75	59	87	86	-2.2	-1.1	-2.0
PHYSIOLOGY	98	197	168	154	165	145	11.0	-12.1	6.7
ZOOLOGY	301	316	256	221	206	231	-7.3	12.1	-4.3
BIOSCIENCES, N.E.C.	148	108	98	119	95	97	-8.5	2.1	-6.8
HEALTH SCIENCES	2,738	2,778	3,215	3,383	3,178	3,151	3.0	-.8	2.4
ANESTHESIOLOGY	2	2	1	0	5	6	20.1	20.0	20.1
CANCER/ONCOLOGY	0	2	2	2	2	1	**	-50.0	**
CARDIOLOGY	2	0	0	0	0	0	-100.0	**	-100.0
DENTISTRY	134	80	85	105	88	65	-8.1	-26.1	-11.4
ENDOCRINOLOGY	1	2	5	4	3	0	24.6	-100.0	-100.0
GASTROENTEROLOGY	0	0	0	0	0	0	**	**	**
HEMATOLOGY	4	3	2	0	0	0	-100.0	**	-100.0
NEUROLOGY	8	4	7	1	2	2	-24.2	50.0	-15.1
NURSING	100	189	316	316	272	346	22.2	16.2	21.1
OBSTETRICS/GYNECOLOGY	1	1	0	1	2	1	14.9	-50.0	.0
OPHTHALMOLOGY	7	1	1	1	1	2	-32.2	100.0	-18.8
OTORHINOLARYNGOLOGY	1	0	0	0	1	1	.0	.0	.0
PEDIATRICS	9	9	5	3	3	2	-19.7	-33.3	-22.2
PHARMACEUTICAL SCIENCES	325	506	720	610	553	556	1.0	.5	1.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	763	960	1,207	1,245	1,128	1,001	8.1	-11.3	4.6
PSYCHIATRY	12	3	1	30	25	31	15.8	24.0	17.1
PULMONARY DISEASE	0	0	0	0	0	0	**	**	**
RADIOLOGY	30	60	45	29	71	52	18.8	-26.8	9.6
SPEECH PATHOLOGY/AUDIOLOGY	389	351	308	285	312	346	-4.3	10.9	-1.9
SURGERY	44	21	20	27	21	18	-13.8	-14.3	-13.8
VETERINARY SCIENCES	58	67	65	63	55	63	-1.1	14.5	1.4
CLINICAL MEDICINE, N.E.C.	46	39	41	67	65	53	7.2	-18.5	2.4
HEALTH RELATED, N.E.C.	602	482	584	594	569	634	-1.1	11.4	.9
PSYCHOLOGY	3,646	3,315	3,600	3,321	3,356	3,127	-1.6	-6.8	-2.5
SOCIAL SCIENCES	15,130	16,497	17,036	15,931	15,940	15,252	1.0	-4.3	.1
AGRICULTURAL ECONOMICS	202	211	221	187	203	183	.1	-9.9	-1.6
ANTHROPOLOGY	640	736	676	713	698	644	1.8	-7.7	.1
ECONOMICS (EXCEPT AGRICULTURAL)	2,451	2,405	2,468	2,392	2,552	2,541	.8	-.4	.6
GEOGRAPHY	594	505	471	480	491	396	-3.7	-19.3	-6.5
HISTORY AND PHILOSOPHY OF SCIENCE	32	20	21	17	18	16	-10.9	-11.1	-10.9
LINGUISTICS	216	299	276	319	214	167	-.2	-22.0	-4.2
POLITICAL SCIENCE	5,933	7,312	7,835	6,796	6,894	6,157	3.0	-10.7	.6
SOCIOLOGY	1,078	1,019	930	911	893	809	-3.7	-9.4	-4.7
SOCIOLOGY/ANTHROPOLOGY	374	274	284	241	200	226	-11.8	13.0	-8.1
SOCIAL SCIENCES, N.E.C.	3,610	3,716	3,854	3,875	3,777	4,113	.9	8.9	2.2

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-21. — FEMALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-83 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1983	1977-82	1982-83	1977-83
TOTAL, ALL FIELDS	25,720	32,756	36,330	39,323	42,882	45,625	10.8	6.4	10.0
ENGINEERING	1,252	2,025	2,214	2,492	3,076	3,688	19.7	19.9	19.7
AEROSPACE	6	13	20	16	37	44	43.9	18.9	39.4
AGRICULTURAL	2	4	1	1	7	15	28.5	114.3	39.9
BIOMEDICAL	12	11	31	24	36	31	24.6	-13.9	17.1
CHEMICAL	92	166	201	219	207	223	17.6	7.7	15.9
CIVIL	233	323	380	391	458	516	14.5	12.7	14.2
ELECTRICAL	309	450	403	507	661	885	16.4	33.9	19.2
ENGINEERING SCIENCE	23	95	95	82	103	109	35.0	5.8	29.6
INDUSTRIAL	330	603	626	773	788	943	19.0	19.7	19.1
MECHANICAL	120	179	190	256	258	294	16.5	14.0	16.1
METALLURGICAL/MATERIALS	33	61	67	92	103	114	25.6	10.7	23.0
MINING	1	2	1	2	5	6	38.0	20.0	34.8
NUCLEAR	9	10	8	12	13	10	7.6	-23.1	1.8
PETROLEUM	3	2	14	18	9	9	24.6	.0	20.1
ENGINEERING, N.E.C.	79	146	217	299	391	489	37.7	25.1	35.5
PHYSICAL SCIENCES	552	657	684	740	717	741	5.4	3.3	5.0
ASTRONOMY	7	7	10	8	7	7	.0	.0	.0
CHEMISTRY	461	548	556	607	583	597	4.8	2.4	4.4
PHYSICS	82	100	112	116	119	137	7.7	15.1	8.9
PHYSICAL SCIENCES, N.E.C.	2	2	6	9	8	0	32.0	-100.0	-100.0
ENVIRONMENTAL SCIENCES	334	489	570	647	736	771	17.1	4.8	15.0
ATMOSPHERIC SCIENCES	6	10	19	16	9	12	8.4	33.3	12.2
GEOSCIENCES	213	308	278	350	437	491	15.5	12.4	14.9
OCEANOGRAPHY	45	60	67	96	98	96	16.8	-2.0	13.5
ENVIRONMENTAL SCIENCES, N.E.C.	70	111	206	185	192	172	22.4	-10.4	16.2
MATHEMATICAL/COMPUTER SCIENCES	1,807	2,234	2,570	3,142	3,722	4,400	15.5	18.2	16.0
COMPUTER SCIENCE	563	941	1,253	1,770	2,166	2,821	30.9	30.2	30.8
MATHEMATICS AND APPLIED MATHEMATICS	1,138	1,176	1,205	1,275	1,464	1,473	5.2	.6	4.4
STATISTICS	106	117	112	97	92	106	-2.8	15.2	.0
LIFE SCIENCES	10,691	12,781	14,357	15,601	16,916	18,268	9.6	8.0	9.3
AGRICULTURAL SCIENCES	258	405	425	343	488	538	13.6	10.2	13.0
BIOLOGICAL SCIENCES	2,710	2,830	3,045	3,174	3,284	3,299	3.9	.5	3.3
ANATOMY	43	33	34	43	48	42	2.2	-12.5	-.4
BIOCHEMISTRY	71	104	100	104	111	98	9.3	-11.7	5.5
BIOLOGY	982	1,100	1,101	1,048	987	993	.1	.6	.2
BIOMETRY/EPIDEMIOLOGY	80	76	109	99	139	156	11.7	12.2	11.8
BIOPHYSICS	1	6	2	2	3	3	24.6	.0	20.1
BOTANY	105	118	139	164	163	151	9.2	-7.4	6.2
CELL BIOLOGY	14	10	10	12	11	18	-4.7	63.6	4.3
ECOLOGY	22	37	53	41	43	35	14.3	-18.6	8.0
ENTOMOLOGY/PARASITOLOGY	37	47	46	48	63	49	11.2	-22.2	4.8
GENETICS	44	39	45	42	43	42	-.5	-2.3	-.8
MICROBIOLOGY	274	203	193	220	245	233	-2.2	-4.9	-2.7
NUTRITION	630	566	736	856	870	943	6.7	8.4	7.0
PATHOLOGY	131	135	149	177	202	194	9.0	-4.0	6.8
PHARMACOLOGY	28	54	46	41	47	49	10.9	4.3	9.8
PHYSIOLOGY	50	103	83	66	88	83	12.0	-5.7	8.8
ZOOLOGY	140	142	140	126	147	134	1.0	-8.8	-.7
BIOSCIENCES, N.E.C.	58	57	59	75	74	76	5.0	2.7	4.6
HEALTH SCIENCES	7,723	9,546	10,887	12,084	13,144	14,431	11.2	9.8	11.0
ANESTHESIOLOGY	0	0	3	4	14	10	**	-28.6	**
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0
DENTISTRY	45	25	29	76	21	23	-14.1	9.5	-10.6
ENDOCRINOLOGY	0	4	0	1	0	0	**	**	**
GASTROENTEROLOGY	0	0	0	1	0	0	**	**	**
HEMATOLOGY	7	3	6	0	1	1	-32.2	.0	-27.7
NEUROLOGY	0	3	1	1	0	0	**	**	**
NURSING	4,631	5,271	6,194	7,020	7,843	8,891	11.1	13.4	11.5
OBSTETRICS/GYNECOLOGY	1	2	1	2	2	1	14.9	-50.0	.0
OPHTHALMOLOGY	0	0	0	2	2	1	**	-50.0	**
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	31	3	6	1	7	11	-25.7	57.1	-15.9
PHARMACEUTICAL SCIENCES	342	302	248	241	253	201	-5.9	19.0	-2.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	649	1,048	1,293	1,442	1,519	1,572	18.5	3.5	15.9
PSYCHIATRY	11	10	1	19	32	38	23.8	18.8	23.0
PULMONARY DISEASE	0	0	0	0	2	0	**	-100.0	**
RADIOLOGY	11	3	5	11	11	10	.0	-9.1	-1.6
SPEECH PATHOLOGY/AUDIOLOGY	1,452	1,719	1,734	1,829	1,965	2,005	6.2	2.0	5.5
SURGERY	6	4	4	7	4	4	-7.8	.0	-6.5
VETERINARY SCIENCES	29	30	49	45	35	40	3.8	14.3	5.5
CLINICAL MEDICINE, N.E.C.	38	81	84	77	58	63	8.8	8.6	8.8
HEALTH RELATED, N.E.C.	470	1,038	1,229	1,305	1,375	1,460	23.9	6.2	20.8
PSYCHOLOGY	3,146	3,921	4,204	4,187	4,623	4,641	8.0	.4	6.7
SOCIAL SCIENCES	7,938	10,649	11,731	12,314	13,092	13,116	10.5	.2	8.7
AGRICULTURAL ECONOMICS	40	45	52	33	64	60	9.9	-6.3	7.0
ANTHROPOLOGY	624	711	771	848	963	880	9.1	-8.6	5.9
ECONOMICS (EXCEPT AGRICULTURAL)	631	758	816	926	1,013	974	9.9	-3.8	7.5
GEOGRAPHY	172	200	203	210	237	216	6.6	-8.9	3.9
HISTORY AND PHILOSOPHY OF SCIENCE	11	11	18	14	15	8	6.4	-46.7	-5.2
LINGUISTICS	280	378	362	440	315	330	2.4	4.8	2.8
POLITICAL SCIENCE	2,475	3,963	4,680	4,660	4,774	4,455	14.0	-6.7	10.3
SOCIOLOGY	971	1,041	995	1,031	1,117	1,000	2.8	-10.5	.5
SOCIOLOGY/ANTHROPOLOGY	158	241	222	256	230	192	7.8	-16.5	3.3
SOCIAL SCIENCES, N.E.C.	2,576	3,301	3,612	3,896	4,364	5,001	11.1	14.6	11.7

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-32. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	49,653	51,275	54,692	56,426	59,636	59,501	64,428	67,354	4.4	4.5	4.5
ENGINEERING	13,539	13,378	13,437	13,270	13,680	14,146	15,316	17,090	2.1	11.6	3.4
AEROSPACE	244	246	249	257	287	269	241	370	-.2	53.5	6.1
AGRICULTURAL	109	89	124	95	111	130	135	203	3.6	50.4	9.3
BIOMEDICAL	106	61	86	85	90	70	85	99	-3.6	16.5	-1.0
CHEMICAL	897	727	781	757	884	778	875	1,018	-.4	16.3	1.8
CIVIL	2,580	2,744	2,706	2,666	2,572	2,444	2,322	2,646	-1.7	14.0	.4
ELECTRICAL	3,300	3,604	3,592	3,622	3,517	3,588	4,190	4,525	4.1	8.0	4.6
ENGINEERING SCIENCE	565	485	503	429	458	498	527	588	-1.2	11.6	.6
INDUSTRIAL	2,045	1,674	1,697	1,600	1,578	1,570	1,758	1,894	-2.5	7.7	-1.1
MECHANICAL	1,954	1,958	1,971	1,852	1,999	2,019	2,103	2,373	1.2	12.8	2.8
METALLURGICAL/MATERIALS	261	266	262	276	326	288	292	322	1.9	10.3	3.0
MINING	98	82	78	86	83	69	65	87	-6.6	33.8	-1.7
NUCLEAR	209	185	176	173	135	184	203	141	-.5	-30.5	-5.5
PETROLEUM	32	45	62	60	45	37	36	29	2.0	-19.4	-1.4
ENGINEERING, N.E.C.	1,139	1,212	1,150	1,312	1,595	2,202	2,484	2,795	13.9	12.5	13.7
PHYSICAL SCIENCES	1,938	1,845	2,001	1,988	1,938	1,992	2,067	2,032	1.1	-1.7	.7
ASTRONOMY	58	40	40	36	31	31	38	31	-6.8	-18.4	-8.6
CHEMISTRY	1,212	1,169	1,242	1,245	1,175	1,201	1,249	1,248	.5	-.1	.4
PHYSICS	651	622	705	692	717	711	762	745	2.7	-2.2	1.9
PHYSICAL SCIENCES, N.E.C.	17	14	14	15	15	16	18	8	1.0	-55.6	-10.2
ENVIRONMENTAL SCIENCES	1,722	1,834	1,832	1,999	2,110	2,151	2,456	2,463	6.1	.3	5.2
ATMOSPHERIC SCIENCES	93	108	117	100	96	123	99	95	1.0	-4.0	.3
GEOSCIENCES	903	991	1,070	1,170	1,154	1,220	1,547	1,542	9.4	-.3	7.9
OCEANOGRAPHY	237	258	225	307	302	328	346	374	6.5	8.1	6.7
ENVIRONMENTAL SCIENCES, N.E.C.	489	477	420	422	558	480	464	452	-.9	-2.6	-1.1
MATHEMATICAL/COMPUTER SCIENCES	4,731	4,367	4,654	4,747	5,312	5,495	6,283	7,116	4.8	13.3	6.0
COMPUTER SCIENCE	1,958	1,911	2,241	2,367	2,871	3,182	3,807	4,630	11.7	21.6	13.1
MATHEMATICS AND APPLIED MATHEMATICS	2,514	2,211	2,150	2,116	2,145	2,071	2,199	2,203	-2.2	.2	-1.9
STATISTICS	259	245	263	264	296	242	277	283	1.1	2.2	1.3
LIFE SCIENCES	11,156	12,806	14,319	14,689	16,313	16,065	17,633	18,553	7.9	5.2	7.5
AGRICULTURAL SCIENCES	1,552	1,635	1,814	1,907	1,978	1,704	2,058	2,100	4.8	2.0	4.4
BIOLOGICAL SCIENCES	4,215	4,542	4,924	4,591	4,845	4,396	4,614	4,583	1.5	-.7	1.2
ANATOMY	78	87	107	72	68	74	81	73	-.6	-9.9	-.9
BIOCHEMISTRY	172	168	189	197	178	136	159	147	-1.3	-7.5	-2.2
BIOLOGY	1,505	1,401	1,531	1,452	1,607	1,304	1,177	1,170	-4.0	-.6	-3.5
BIOMETRY/EPIDEMIOLOGY	61	98	105	111	138	92	147	173	15.8	17.7	16.1
BIOPHYSICS	19	15	12	27	9	6	17	12	-1.8	-29.4	-6.4
BOTANY	388	384	372	333	387	406	442	370	2.2	-16.3	-.7
CELL BIOLOGY	28	32	17	24	22	19	16	29	-8.9	81.3	.5
ECOLOGY	95	93	120	135	183	117	113	127	2.9	12.4	4.2
ENTOMOLOGY/PARASITOLOGY	179	210	199	230	194	210	199	169	1.8	-15.1	-.8
GENETICS	34	32	38	45	27	28	29	28	-2.6	-3.4	-2.7
MICROBIOLOGY	406	443	523	413	351	317	391	363	-.6	-7.2	-1.6
NUTRITION	450	719	809	612	809	829	863	964	11.5	11.7	11.5
PATHOLOGY	120	149	142	164	176	184	221	215	10.7	-2.7	8.7
PHARMACOLOGY	75	78	80	62	72	57	97	100	4.4	3.1	4.2
PHYSIOLOGY	151	118	178	200	174	165	195	154	4.4	-21.0	.3
ZOOLOGY	406	417	424	437	378	327	330	341	-3.4	3.3	-2.5
BIOSCIENCES, N.E.C.	50	96	58	77	72	125	137	148	18.3	8.0	16.8
HEALTH SCIENCES	5,389	6,629	7,581	8,191	9,490	9,965	10,961	11,870	12.6	8.3	11.9
ANESTHESIOLOGY	0	0	0	0	0	0	16	14	**	-12.5	**
CANCER/ONCOLOLY	5	0	0	2	1	2	1	1	-23.5	.0	-20.5
CARDIOLOGY	2	0	0	0	0	0	0	0	-100.0	**	-100.0
DENTISTRY	58	69	95	70	82	98	77	41	4.8	-46.8	-4.8
ENDOCRINOLOGY	1	1	1	6	5	5	3	0	20.1	-100.0	-100.0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	1	0	0	1	**	**	**
NEUROLOGY	0	1	1	7	3	2	2	3	**	50.0	**
NURSING	2,322	3,173	3,658	3,887	4,892	5,127	5,780	6,624	16.4	14.6	16.2
OBSTETRICS/GYNECOLOGY	5	0	1	1	0	2	3	2	-8.2	-33.3	-12.3
OPHTHALMOLOGY	4	6	1	1	1	3	3	3	-4.7	.0	-4.0
OTORHINOLARYNGOLOGY	4	0	1	0	0	0	1	1	-20.6	.0	-18.0
PEDIATRICS	69	37	38	0	3	1	2	3	-44.6	50.0	-36.1
PHARMACEUTICAL SCIENCES	208	216	226	207	230	251	266	264	4.2	-.8	3.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	692	815	928	1,097	1,286	1,345	1,322	1,294	11.4	-2.1	9.4
PSYCHIATRY	26	10	10	0	2	15	49	64	11.1	30.6	13.7
PULMONARY DISEASE	0	0	0	0	0	0	2	0	**	-100.0	**
RADIOLOGY	13	40	32	58	48	34	77	61	34.5	-20.8	24.7
SPEECH PATHOLOGY/AUDIOLOGY	1,281	1,554	1,733	1,796	1,763	1,828	2,025	2,003	7.9	-.9	6.6
SURGERY	38	39	29	23	24	28	25	21	-6.7	-16.0	-8.1
VETERINARY SCIENCES	79	87	94	97	114	108	90	103	2.2	14.4	3.9
CLINICAL MEDICINE, N.E.C.	48	83	93	90	112	114	99	98	12.8	-1.0	10.7
HEALTH RELATED, N.E.C.	534	498	640	849	942	1,002	1,121	1,269	13.2	13.2	13.2
PSYCHOLOGY	2,984	3,206	3,267	3,364	3,684	3,508	3,965	3,795	4.8	-4.3	3.5
SOCIAL SCIENCES	13,581	13,839	15,182	16,369	16,599	16,177	16,708	16,305	3.5	-2.4	2.6
AGRICULTURAL ECONOMICS	223	242	241	256	273	218	263	241	2.8	-8.4	1.1
ANTHROPOLOGY	928	869	995	1,032	1,023	1,108	1,227	1,144	4.8	-6.8	3.0
ECONOMICS (EXCEPT AGRICULTURAL)	1,816	1,739	1,957	1,839	1,896	1,736	1,874	1,873	.5	-.1	.4
GEOGRAPHY	786	728	718	647	631	659	694	587	-2.1	-15.4	-4.1
HISTORY AND PHILOSOPHY OF SCIENCE	29	28	21	17	26	19	26	20	-1.8	-23.1	-5.2
LINGUISTICS	178	250	248	273	267	415	340	308	11.4	-9.4	8.1
POLITICAL SCIENCE	4,463	4,620	5,030	6,063	6,624	6,137	6,151	5,523	5.5	-10.2	3.1
SOCIOLOGY	1,486	1,351	1,560	1,471	1,295	1,351	1,374	1,244	-1.3	-9.5	-2.5
SOCIOLOGY/ANTHROPOLOGY	349	242	239	197	190	189	172	170	-11.1	-1.2	-9.8
SOCIAL SCIENCES, N.E.C.	3,323	3,770	4,173	4,574	4,374	4,385	4,587	5,195	5.5	13.3	6.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-33. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-83

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	34,417	37,841	38,535	40,745	43,498	46,273	45,429	47,276	4.7	4.1	4.6
ENGINEERING	13,141	14,370	13,775	14,538	14,524	15,410	14,175	15,330	1.3	8.1	2.2
AEROSPACE	52	72	66	68	119	127	173	181	22.2	4.6	19.5
AGRICULTURAL	1	0	0	0	0	0	1	0	.0	-100.0	-100.0
BIOMEDICAL	67	94	108	94	85	89	71	74	1.0	4.2	1.4
CHEMICAL	516	501	505	496	544	565	530	544	-.4	2.6	.8
CIVIL	1,849	1,827	1,755	1,873	1,892	2,049	1,782	1,903	-.6	6.8	.4
ELECTRICAL	3,848	4,416	4,552	4,349	4,930	5,156	5,115	5,744	4.9	12.3	5.9
ENGINEERING SCIENCE	20	24	36	34	44	51	61	54	20.4	-11.5	15.2
INDUSTRIAL	4,505	4,764	4,130	4,888	4,042	4,186	3,660	3,922	-3.4	7.2	-2.0
MECHANICAL	1,053	1,399	1,283	1,365	1,426	1,557	1,536	1,547	6.5	.7	5.6
METALLURGICAL/MATERIALS	218	283	264	260	277	323	285	328	4.6	15.1	6.0
MINING	6	5	5	5	5	3	8	7	4.9	-12.5	2.2
NUCLEAR	157	133	88	64	53	67	56	10	-15.8	-82.1	-32.5
PETROLEUM	21	33	37	27	85	91	74	88	23.4	18.9	22.7
ENGINEERING, N.E.C.	828	819	946	1,017	1,012	1,146	823	928	-.1	12.8	1.6
PHYSICAL SCIENCES	1,298	1,224	1,220	1,139	1,201	1,221	1,102	1,193	-2.7	8.3	-1.2
ASTRONOMY	7	6	0	2	4	1	4	2	-8.9	-50.0	-16.4
CHEMISTRY	803	857	880	799	854	881	785	794	-.4	1.1	-.2
PHYSICS	488	361	328	338	343	339	313	397	-7.1	26.8	-2.9
PHYSICAL SCIENCES, N.E.C.	0	0	12	0	0	0	0	0	**	**	**
ENVIRONMENTAL SCIENCES	347	448	414	405	420	421	428	392	3.6	-8.4	1.8
ATMOSPHERIC SCIENCES	10	3	1	1	28	11	7	11	-5.8	57.1	1.4
GEOSCIENCES	238	219	197	250	219	225	214	236	-1.8	10.3	-.1
OCEANOGRAPHY	33	146	117	34	15	16	37	40	1.9	8.1	2.8
ENVIRONMENTAL SCIENCES, N.E.C.	66	80	99	120	158	169	170	105	17.1	-38.2	6.9
MATHEMATICAL/COMPUTER SCIENCES	2,423	2,749	3,147	3,712	4,429	5,505	5,969	6,768	16.2	13.4	15.8
COMPUTER SCIENCE	726	1,125	1,642	2,048	2,613	3,494	3,861	4,634	32.1	20.0	30.3
MATHEMATICS AND APPLIED MATHEMATICS	1,595	1,532	1,400	1,515	1,737	1,940	2,040	2,065	4.2	1.2	3.8
STATISTICS	102	92	85	79	79	71	68	69	-6.5	1.5	-5.4
LIFE SCIENCES	4,125	6,235	6,381	6,302	6,636	7,648	7,417	7,557	10.3	1.9	9.0
AGRICULTURAL SCIENCES	9	16	15	16	10	13	19	18	13.3	-5.3	10.4
BIOLOGICAL SCIENCES	2,123	2,387	2,237	2,153	2,014	2,133	2,037	1,827	-.7	-10.3	-2.1
ANATOMY	20	39	23	20	24	35	56	43	18.7	-23.2	11.6
BIOCHEMISTRY	48	45	87	78	96	137	99	69	12.8	-30.3	5.3
BIOLOGY	1,341	1,441	1,270	1,207	1,123	1,123	1,069	868	-3.7	-18.8	-6.0
BIOMETRY/EPIDEMIOLOGY	58	66	57	50	76	91	100	106	9.5	6.0	9.0
BIOPHYSICS	2	2	0	0	0	0	0	1	-100.0	**	-9.4
BOTANY	41	25	32	22	20	27	17	22	-13.6	29.4	-8.5
CELL BIOLOGY	16	16	20	11	11	10	17	15	1.0	-11.8	-.9
ECOLOGY	1	0	0	0	0	0	0	0	-100.0	**	-100.0
ENTOMOLOGY/PARASITOLOGY	0	3	4	4	3	2	1	1	**	.0	**
GENETICS	37	41	50	45	48	33	34	39	-1.4	14.7	.8
MICROBIOLOGY	110	138	85	79	68	110	102	92	-1.3	-9.8	-2.5
NUTRITION	76	130	90	119	129	198	214	237	18.8	10.7	17.6
PATHOLOGY	186	230	226	226	187	170	178	176	-.7	-1.1	-.8
PHARMACOLOGY	41	47	62	83	49	43	37	35	-1.7	-5.4	-2.2
PHYSIOLOGY	41	30	113	100	77	55	58	74	6.0	27.6	8.8
ZOOLOGY	6	24	27	21	18	30	23	24	25.1	4.3	21.9
BIOSCIENCES, N.E.C.	99	110	91	88	85	69	32	25	-17.2	-21.9	-17.8
HEALTH SCIENCES	1,993	3,832	4,129	4,133	4,612	5,502	5,361	5,712	17.9	6.5	16.2
ANESTHESIOLOGY	0	2	3	2	4	4	3	2	**	-33.3	**
CANCER/ONCOLOGY	0	0	1	0	0	0	1	0	**	-100.0	**
CARDIOLOGY	0	2	0	0	0	0	0	0	**	**	**
DENTISTRY	73	110	93	35	32	83	32	47	-12.8	46.9	-6.1
ENDOCRINOLOGY	2	0	0	0	0	0	0	0	-100.0	**	-100.0
GASTROENTEROLOGY	0	0	0	0	0	1	0	0	**	**	**
HEMATOLOGY	1	11	8	6	7	0	1	0	.0	-100.0	-100.0
NEUROLOGY	7	7	1	0	5	0	0	0	-100.0	**	-100.0
NURSING	469	1,558	1,589	1,573	1,618	2,209	2,335	2,583	30.7	10.6	27.6
OBSTETRICS/GYNECOLOGY	2	2	2	2	1	1	1	0	-10.9	-100.0	-100.0
OPHTHALMOLOGY	1	1	0	0	0	0	0	0	-100.0	**	-100.0
OTORHINOLARYNGOLOGY	0	1	0	0	0	0	0	0	**	**	**
PEDIATRICS	3	3	5	12	8	3	8	10	17.8	25.0	18.8
PHARMACEUTICAL SCIENCES	587	651	706	601	538	600	540	593	-1.4	9.8	.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	444	597	748	911	1,214	1,342	1,325	1,279	20.0	-3.5	16.3
PSYCHIATRY	7	13	13	13	0	34	8	5	2.3	-37.5	-4.7
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	2	1	1	5	2	6	5	1	16.5	-80.0	-9.4
SPEECH PATHOLOGY/AUDIOLOGY	216	287	363	374	299	286	255	348	2.8	36.5	7.1
SURGERY	4	11	8	2	0	6	0	1	-100.0	**	-18.0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	3	1	20	26	13	30	24	18	41.4	-25.0	29.2
HEALTH RELATED, N.E.C.	172	574	568	671	871	897	823	825	29.8	.2	25.1
PSYCHOLOGY	3,622	3,586	3,933	3,872	4,120	4,000	4,014	3,973	1.7	-1.0	1.3
SOCIAL SCIENCES	9,461	9,229	9,665	10,777	12,168	12,068	12,324	12,063	4.5	-2.1	3.5
AGRICULTURAL ECONOMICS	0	0	0	0	0	2	4	2	**	-50.0	**
ANTHROPOLOGY	386	395	370	415	424	453	434	380	2.0	-12.4	-.2
ECONOMICS (EXCEPT AGRICULTURAL)	1,369	1,343	1,118	1,324	1,388	1,582	1,691	1,642	3.6	-2.9	2.6
GEOGRAPHY	34	38	39	58	43	31	34	25	.0	-26.5	-4.3
HISTORY AND PHILOSOPHY OF SCIENCE	23	15	19	14	13	12	7	4	-18.0	-42.9	-22.1
LINGUISTICS	211	246	183	404	371	344	189	189	-1.8	.0	-1.6
POLITICAL SCIENCE	4,117	3,788	4,444	5,212	5,891	5,319	5,517	5,089	5.0	-7.8	3.1
SOCIOLOGY	771	698	535	589	630	631	636	565	-3.2	-11.2	-4.3
SOCIOLOGY/ANTHROPOLOGY	203	290	328	318	316	308	258	248	4.1	-3.9	2.9
SOCIAL SCIENCES, N.E.C.	2,347	2,416	2,629	2,443	3,092	3,386	3,954	3,919	7.2	10.3	7.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-34. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1976-83

DIVISION AND STATE	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1976	1977	1978	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL INSTITUTIONS	84,070	89,114	93,227	97,171	103,134	105,774	109,857	114,630	4.6	4.3	4.5
NEW ENGLAND	5,100	5,509	5,899	6,034	6,537	6,806	7,361	7,891	6.3	7.2	6.4
CONNECTICUT	575	374	435	506	446	486	491	508	-2.6	3.5	-1.8
MAINE	123	91	109	120	123	82	55	97	-12.6	76.4	-3.3
MASSACHUSETTS	3,807	4,424	4,713	4,766	5,251	5,513	6,117	6,524	8.2	6.7	8.0
NEW HAMPSHIRE	75	91	136	81	105	120	110	129	6.6	17.3	8.1
RHODE ISLAND	420	394	400	416	467	438	368	425	-2.2	15.5	.2
VERMONT	100	135	106	145	145	167	220	208	14.0	-5.5	11.0
MIDDLE ATLANTIC	21,738	23,277	23,476	24,769	26,414	28,550	28,732	30,490	4.8	6.1	5.0
NEW JERSEY	3,964	4,108	5,305	5,225	5,277	5,241	5,112	5,547	4.3	8.5	4.9
NEW YORK	12,557	14,033	13 146	14,301	15,164	16,781	17,146	18,136	5.3	5.8	5.4
PENNSYLVANIA	5,217	5,136	5,023	5,243	5,973	6,528	6,474	6,807	3.7	5.1	3.9
EAST NORTH CENTRAL	12,458	13,347	14,379	15,090	15,810	16,009	16,722	17,441	5.0	4.3	4.9
ILLINOIS	2,674	3,535	3,853	4,187	4,545	4,603	4,444	4,340	8.8	-2.3	7.2
INDIANA	1,533	1,590	1,436	1,446	1,608	1,943	2,121	2,289	5.6	7.9	5.9
MICHIGAN	2,313	2,347	2,606	3,180	3,074	3,034	3,448	3,679	6.9	6.7	6.9
OHIO	4,132	4,258	4,809	4,613	4,698	4,802	5,045	5,252	3.4	4.1	3.5
WISCONSIN	1,806	1,617	1,675	1,664	1,885	1,627	1,664	1,881	-1.4	13.0	.6
WEST NORTH CENTRAL	5,005	5,673	6,173	5,872	5,884	5,729	6,121	6,283	3.4	2.6	3.3
IOWA	842	905	1,069	1,021	1,009	907	943	956	1.9	1.4	1.8
KANSAS	877	1,082	1,346	1,284	1,029	926	891	990	.3	11.1	1.7
MINNESOTA	735	760	764	734	776	849	908	976	3.6	7.5	4.1
MISSOURI	1,815	1,830	1,849	1,800	2,004	1,937	2,198	2,118	3.2	-3.6	2.2
NEBRASKA	539	783	747	680	650	795	772	845	6.2	9.5	6.6
NORTH DAKOTA	108	229	225	187	220	156	176	192	8.5	9.1	8.6
SOUTH DAKOTA	89	84	173	166	196	159	233	206	17.4	-11.6	12.7
SOUTH ATLANTIC	13,944	15,074	16,424	17,036	18,641	19,144	19,642	20,085	5.9	2.3	5.4
DELAWARE	330	254	249	321	351	409	439	404	4.9	-8.0	2.9
DISTRICT OF COLUMBIA	4,371	5,296	5,215	5,098	5,273	5,915	5,221	5,038	3.0	-3.5	2.0
FLORIDA	2,243	2,255	2,976	3,444	4,170	4,286	4,687	5,173	13.1	10.4	12.7
GEORGIA	1,214	1,060	1,136	1,280	1,481	1,308	1,320	1,309	1.4	-.8	1.1
MARYLAND	2,102	2,229	2,210	2,107	1,721	1,868	1,950	1,141	-1.2	9.8	-.3
NORTH CAROLINA	920	937	1,136	1,193	1,168	1,178	1,283	1,[illegible]	5.7	12.5	6.7
SOUTH CAROLINA	791	896	1,010	981	810	888	1,030	[illegible]	[illegible]	-11.1	2.1
VIRGINIA	1,497	1,589	1,663	1,765	2,288	2,147	2,293	2,322	7.4	1.3	6.5
WEST VIRGINIA	474	558	829	847	1,379	1,145	1,429	1,338	20.1	-5.7	16.0
EAST SOUTH CENTRAL	3,356	3,539	3,774	3,762	4,019	3,737	4,036	4,094	3.1	1.4	2.9
ALABAMA	945	1,102	1,069	1,052	946	988	1,032	1,048	1.5	1.6	1.5
KENTUCKY	667	701	708	787	753	824	960	933	6.4	-2.8	5.0
MISSISSIPPI	397	376	424	369	437	423	450	413	2.4	-8.2	.8
TENNESSEE	1,347	1,360	1,573	1,554	1,883	1,502	1,594	1,700	2.7	6.6	3.2
WEST SOUTH CENTRAL	7,283	8,226	8,570	8,232	8,749	8,802	9,360	10,213	4.3	9.1	4.9
ARKANSAS	195	263	312	291	300	300	334	333	9.4	-.3	7.9
LOUISIANA	824	874	991	1,036	1,088	1,093	1,090	1,218	4.9	11.7	5.8
OKLAHOMA	907	1,049	1,088	985	934	925	931	1,055	.4	13.3	2.2
TEXAS	5,361	6,040	6,179	5,920	6,427	6,484	7,005	7,607	4.6	8.6	5.1
MOUNTAIN	4,360	4,620	4,874	5,334	5,608	5,530	6,182	5,806	6.0	-6.1	4.2
ARIZONA	1,252	1,319	1,335	1,575	1,484	1,774	2,301	1,954	10.7	-15.1	6.6
COLORADO	1,335	1,405	1,410	1,773	1,874	1,648	1,711	1,497	4.2	-12.5	1.6
IDAHO	235	400	396	298	328	292	282	351	3.1	24.5	5.9
MONTANA	35	46	85	69	74	59	75	70	13.5	-6.7	10.4
NEVADA	138	123	109	116	85	114	58	142	-13.5	144.8	.4
NEW MEXICO	667	546	620	564	637	692	723	767	1.4	6.1	2.0
UTAH	601	701	841	845	892	886	931	984	7.6	5.7	7.3
WYOMING	97	80	78	94	234	65	101	42	.7	-59.4	-11.6
PACIFIC	10,428	9,314	9,166	10,456	10,842	10,873	11,052	11,560	1.0	4.6	1.5
ALASKA	38	38	28	36	28	92	84	99	14.1	17.9	14.7
CALIFORNIA	8,732	7,700	7,260	8,469	8,736	8,829	8,900	9,334	.3	4.9	1.0
HAWAII	143	170	168	161	281	274	295	295	12.8	.0	10.9
OREGON	597	454	556	548	450	522	576	601	-.6	4.3	.1
WASHINGTON	918	952	1,154	1,242	1,347	1,156	1,197	1,231	4.5	2.8	4.3
OUTLYING AREAS	398	537	492	586	630	594	649	767	8.5	18.2	9.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-35. — SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	18,481	19,487	18,086	18,411	19,646	19,366	20,790	.8	7.4	1.7
ENGINEERING	1,211	1,245	1,067	978	1,040	978	1,109	-3.5	13.4	-1.2
AEROSPACE	36	46	32	20	14	25	32	-5.9	28.0	-1.7
AGRICULTURAL	32	20	25	9	9	6	4	-24.3	-33.3	-25.7
BIOMEDICAL	55	73	32	28	34	31	28	-9.1	-9.7	-9.2
CHEMICAL	221	210	192	183	171	174	198	-3.9	13.8	-1.6
CIVIL	105	156	128	124	107	108	131	.5	21.3	3.2
ELECTRICAL	176	171	142	121	191	176	180	.0	2.3	.3
ENGINEERING SCIENCE	92	91	74	79	87	76	71	-3.1	-6.6	-3.6
INDUSTRIAL	15	20	8	16	13	9	14	-8.2	55.6	-1.0
MECHANICAL	181	161	143	137	130	130	182	-5.4	40.0	.1
METALLURGICAL/MATERIALS	213	209	209	172	193	166	204	-4.1	22.9	-.6
MINING	16	14	5	3	16	10	19	-7.5	90.0	2.5
NUCLEAR	32	21	20	22	26	18	15	-9.1	-16.7	-10.3
PETROLEUM	2	5	6	6	2	4	1	12.2	-75.0	-9.4
ENGINEERING, N.E.C.	35	48	51	58	47	45	30	4.3	-33.3	-2.2
PHYSICAL SCIENCES	4,034	4,197	4,025	4,264	4,462	4,281	4,444	1.0	3.8	1.4
ASTRONOMY	141	168	132	141	132	148	111	.8	-25.0	-3.4
CHEMISTRY	2,610	2,658	2,604	2,710	2,870	2,805	2,979	1.2	6.2	1.9
PHYSICS	1,281	1,369	1,287	1,398	1,445	1,326	1,350	.6	1.8	.8
PHYSICAL SCIENCES, N.E.C.	2	2	2	15	15	2	4	.0	100.0	10.4
ENVIRONMENTAL SCIENCES	395	375	315	308	339	335	414	-2.7	23.6	.7
ATMOSPHERIC SCIENCES	47	48	31	43	46	32	41	-6.2	28.1	-1.9
GEOSCIENCES	272	242	219	194	213	216	237	-3.8	9.7	-1.9
OCEANOGRAPHY	56	64	54	57	67	78	120	5.7	53.8	11.5
ENVIRONMENTAL SCIENCES, N.E.C.	20	21	11	14	13	9	16	-12.5	77.8	-3.1
MATHEMATICAL/COMPUTER SCIENCES	190	145	200	205	147	240	252	4.0	5.0	4.1
COMPUTER SCIENCE	60	59	38	43	34	46	82	-4.3	78.3	4.6
MATHEMATICS AND APPLIED MATHEMATICS	107	70	139	141	102	180	137	9.1	-23.9	3.6
STATISTICS	23	16	23	21	11	14	33	-7.9	135.7	5.3
LIFE SCIENCES	11,878	12,768	11,625	11,743	12,855	12,725	13,775	1.2	8.3	2.1
AGRICULTURAL SCIENCES	334	293	215	239	284	279	298	-3.0	6.8	-1.4
BIOLOGICAL SCIENCES	6,311	6,616	6,875	7,106	7,706	7,756	8,404	3.5	8.4	4.2
ANATOMY	169	207	244	237	248	261	297	7.5	13.8	8.4
BIOCHEMISTRY	1,454	1,446	1,562	1,599	1,724	1,684	1,786	2.5	6.1	3.0
BIOLOGY	828	832	965	989	870	942	998	2.2	5.9	2.7
BIOMETRY/EPIDEMIOLOGY	37	65	68	72	64	53	54	6.2	1.9	5.5
BIOPHYSICS	220	219	101	151	155	129	184	-8.5	42.6	-2.5
BOTANY	180	188	163	220	240	298	369	8.8	23.8	10.8
CELL BIOLOGY	309	314	352	410	532	516	620	8.9	20.2	10.5
ECOLOGY	8	18	18	22	44	28	39	23.2	39.3	25.4
ENTOMOLOGY/PARASITOLOGY	123	119	104	119	133	119	112	-.5	-5.9	-1.3
GENETICS	213	216	239	258	298	314	344	6.7	9.6	7.1
MICROBIOLOGY	790	906	861	873	967	1,014	1,017	4.2	.3	3.7
NUTRITION	170	172	170	129	171	138	151	-3.4	9.4	-1.7
PATHOLOGY	372	432	429	477	468	540	584	6.4	8.1	6.7
PHARMACOLOGY	561	622	637	624	755	777	801	5.6	3.1	5.2
PHYSIOLOGY	581	615	681	668	758	673	773	2.5	14.9	4.2
ZOOLOGY	240	189	215	193	207	203	203	-2.8	.0	-2.4
BIOSCIENCES, N.E.C.	56	56	66	65	72	67	72	3.0	7.5	3.7
HEALTH SCIENCES	5,233	5,859	4,535	4,398	4,865	4,690	5,073	-1.8	8.2	-.4
ANESTHESIOLOGY	64	75	62	54	66	58	59	-1.6	1.7	-1.2
CANCER/ONCOLOGY	127	136	114	135	129	100	157	-3.9	57.0	3.1
CARDIOLOGY	497	502	298	334	333	373	336	-4.7	-9.9	-5.4
DENTISTRY	62	308	102	79	139	246	197	25.8	-19.9	18.0
ENDOCRINOLOGY	198	195	108	136	164	139	173	-5.7	24.5	-1.9
GASTROENTEROLOGY	168	198	103	123	113	112	148	-6.5	32.1	-1.8
HEMATOLOGY	271	248	151	148	153	137	154	-10.7	12.4	-7.8
NEUROLOGY	191	258	265	283	287	254	301	4.9	18.5	6.7
NURSING	1	0	7	9	8	0	*	-100.0	**	29.2
OBSTETRICS/GYNECOLOGY	182	167	143	122	113	101	116	-9.3	14.9	-6.2
OPHTHALMOLOGY	163	186	138	122	144	139	137	-2.6	-1.4	-2.5
OTORHINOLARYNGOLOGY	41	29	34	44	38	17	23	-13.6	35.3	-7.9
PEDIATRICS	532	514	511	433	587	530	545	-.1	2.8	.3
PHARMACEUTICAL SCIENCES	202	227	235	233	243	238	241	2.8	1.3	2.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	150	113	112	161	135	143	161	-.8	12.6	1.0
PSYCHIATRY	281	329	292	295	289	282	264	.1	-6.4	-.9
PULMONARY DISEASE	207	228	143	127	122	131	149	-7.3	13.7	-4.6
RADIOLOGY	182	190	138	156	155	164	187	-1.7	14.0	.4
SPEECH PATHOLOGY/AUDIOLOGY	19	32	36	18	19	10	18	-10.1	80.0	-.8
SURGERY	406	461	281	307	305	323	390	-3.7	20.7	-.6
VETERINARY SCIENCES	61	75	22	52	31	49	50	-3.6	2.0	-2.8
CLINICAL MEDICINE, N.E.C.	1,191	1,315	1,145	925	1,179	1,052	1,160	-2.0	10.3	-.4
HEALTH RELATED, N.E.C.	37	63	95	102	113	92	101	16.4	9.8	15.4
PSYCHOLOGY	406	399	454	475	471	520	436	4.5	-16.2	1.2
SOCIAL SCIENCES	344	358	400	438	332	287	360	-3.0	25.4	.7
AGRICULTURAL ECONOMICS	30	28	6	8	6	10	28	-16.7	180.0	-1.0
ANTHROPOLOGY	45	53	41	40	30	34	60	-4.6	76.5	4.2
ECONOMICS (EXCEPT AGRICULTURAL)	57	65	99	146	30	13	20	-21.8	53.8	-13.9
GEOGRAPHY	12	9	5	15	23	5	7	-13.6	40.0	-7.4
HISTORY AND PHILOSOPHY OF SCIENCE	12	22	11	15	21	14	19	2.6	35.7	6.8
LINGUISTICS	32	29	30	54	47	47	51	6.6	8.5	6.9
POLITICAL SCIENCE	28	27	29	30	46	44	43	7.8	-2.3	6.3
SOCIOLOGY	111	96	115	99	90	89	102	-3.6	14.6	-1.2
SOCIOLOGY/ANTHROPOLOGY	0	1	4	3	0	2	1	**	-50.0	**
SOCIAL SCIENCES, N.E.C.	17	28	60	28	39	29	29	9.3	.0	7.9

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-36. — SCIENCE/ENGINEERING POSTDOCTORATES IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	9,990	10,415	9,876	10,291	10,822	10,874	11,725	1.4	7.8	2.3
ENGINEERING	582	629	531	523	528	527	609	-1.6	15.6	.6
AEROSPACE	14	22	11	12	8	10	15	-5.5	50.0	1.0
AGRICULTURAL	26	19	25	8	6	2	1	-34.8	-50.0	-37.2
BIOMEDICAL	15	14	7	12	16	19	11	4.0	-42.1	-4.3
CHEMICAL	135	142	129	130	107	116	115	-2.5	-.9	-2.3
CIVIL	47	81	52	59	34	70	80	6.9	14.3	7.9
ELECTRICAL	84	92	57	51	116	82	110	-.4	34.1	3.9
ENGINEERING SCIENCE	11	16	6	5	9	10	16	-1.6	60.0	5.5
INDUSTRIAL	9	11	7	15	12	9	10	.0	11.1	1.5
MECHANICAL	90	79	73	71	66	74	98	-3.2	32.4	1.2
METALLURGICAL/MATERIALS	108	105	102	99	88	84	113	-4.1	34.5	.6
MINING	9	7	4	2	7	1	1	-30.7	.0	-26.9
NUCLEAR	17	12	16	20	21	17	14	.0	-17.6	-2.7
PETROLEUM	0	4	5	4	0	1	1	**	.0	**
ENGINEERING, N.E.C.	17	25	37	45	38	32	24	11.1	-25.0	5.0
PHYSICAL SCIENCES	2,388	2,453	2,427	2,653	2,770	2,732	2,891	2.3	5.8	2.8
ASTRONOMY	68	87	71	85	67	81	77	3.0	-4.9	1.8
CHEMISTRY	1,581	1,613	1,634	1,719	1,802	1,799	1,939	2.2	7.8	3.0
PHYSICS	737	751	720	849	901	850	871	2.4	2.5	2.4
PHYSICAL SCIENCES, N.E.C.	2	2	2	0	0	2	4	.0	100.0	10.4
ENVIRONMENTAL SCIENCES	220	246	196	189	220	230	265	.7	15.2	2.7
ATMOSPHERIC SCIENCES	45	48	23	36	41	29	40	-7.1	37.9	-1.7
GEOSCIENCES	124	128	119	97	120	133	136	1.2	2.3	1.3
OCEANOGRAPHY	45	58	46	47	49	64	82	6.0	28.1	9.0
ENVIRONMENTAL SCIENCES, N.E.C.	6	12	8	9	10	4	7	-6.5	75.0	2.2
MATHEMATICAL/COMPUTER SCIENCES	80	58	95	108	60	92	149	2.4	62.0	9.3
COMPUTER SCIENCE	31	20	20	26	15	22	48	-5.6	118.2	6.4
MATHEMATICS AND APPLIED MATHEMATICS	31	17	56	66	40	60	73	11.6	21.7	13.0
STATISTICS	18	14	19	16	5	10	28	-9.3	180.0	6.5
LIFE SCIENCES	6,376	6,679	6,193	6,412	6,828	6,883	7,342	1.3	6.7	2.0
AGRICULTURAL SCIENCES	315	284	204	226	272	264	277	-2.9	4.9	-1.8
BIOLOGICAL SCIENCES	3,384	3,573	3,913	4,039	4,396	4,413	4,748	4.5	7.6	5.0
ANATOMY	89	114	132	130	138	144	157	8.3	9.0	8.4
BIOCHEMISTRY	777	760	873	865	993	955	1,047	3.5	9.6	4.4
BIOLOGY	299	325	387	407	397	454	450	7.2	-.9	6.0
BIOMETRY/EPIDEMIOLOGY	17	31	26	27	31	25	25	6.6	.0	5.7
BIOPHYSICS	81	74	54	57	44	32	35	-14.3	9.4	-11.3
BOTANY	162	169	149	199	211	269	339	8.8	26.0	11.1
CELL BIOLOGY	149	152	150	185	219	196	192	4.7	-2.0	3.7
ECOLOGY	6	16	18	22	39	27	38	28.5	40.7	30.2
ENTOMOLOGY/PARASITOLOGY	113	104	93	108	121	106	107	-1.1	.9	-.8
GENETICS	112	115	132	143	162	148	184	4.8	24.3	7.3
MICROBIOLOGY	462	544	561	593	658	658	641	6.1	-2.6	4.8
NUTRITION	54	67	83	66	74	63	69	2.6	9.5	3.6
PATHOLOGY	179	187	218	244	209	273	308	7.3	12.8	8.1
PHARMACOLOGY	285	334	368	352	397	434	446	7.3	2.8	6.6
PHYSIOLOGY	338	370	419	406	454	392	465	2.5	18.6	4.7
ZOOLOGY	205	155	185	171	191	185	189	-1.7	2.2	-1.2
BIOSCIENCES, N.E.C.	56	56	65	64	58	52	56	-1.2	7.7	.0
HEALTH SCIENCES	2,677	2,822	2,076	2,147	2,160	2,206	2,317	-3.2	5.0	-2.0
ANESTHESIOLOGY	29	38	30	24	28	14	17	-11.4	21.4	-7.3
CANCER/ONCOLOGY	88	90	85	108	101	78	111	-2.0	42.3	3.4
CARDIOLOGY	261	267	160	196	190	221	204	-2.7	-7.7	-3.5
DENTISTRY	43	113	70	76	34	151	118	23.3	-21.9	15.5
ENDOCRINOLOGY	115	98	47	67	71	83	104	-5.3	25.3	-1.4
GASTROENTEROLOGY	98	104	50	58	51	62	66	-7.3	6.5	-5.5
HEMATOLOGY	117	107	60	78	76	72	82	-7.8	13.9	-5.0
NEUROLOGY	69	117	137	124	126	118	127	9.4	7.6	9.1
NURSING	0	0	7	8	7	0	6	**	**	**
OBSTETRICS/GYNECOLOGY	97	83	70	58	48	45	48	-12.0	6.7	-9.6
OPHTHALMOLOGY	53	49	51	42	40	49	61	-1.3	24.5	2.0
OTORHINOLARYNGOLOGY	19	18	22	28	16	3	7	-26.5	133.3	-13.3
PEDIATRICS	245	228	171	154	181	161	155	-6.8	-3.7	-6.3
PHARMACEUTICAL SCIENCES	192	220	227	220	230	223	225	2.5	.9	2.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	123	77	47	95	63	84	73	-6.2	-13.1	-7.2
PSYCHIATRY	143	122	79	98	104	119	113	-3.0	-5.0	-3.3
PULMONARY DISEASE	112	119	58	72	72	83	94	-4.9	13.3	-2.5
RADIOLOGY	78	54	33	45	43	48	64	-7.8	33.3	-2.8
SPEECH PATHOLOGY/AUDIOLOGY	18	31	23	6	8	8	16	-12.6	100.0	-1.7
SURGERY	169	221	116	118	134	126	164	-4.8	30.2	-.4
VETERINARY SCIENCES	36	44	15	34	20	35	32	-.5	-8.6	-1.7
CLINICAL MEDICINE, N.E.C.	552	577	452	386	444	372	376	-6.4	1.1	-5.3
HEALTH RELATED, N.E.C.	20	45	66	52	68	51	54	16.9	5.9	15.2
PSYCHOLOGY	156	149	203	235	259	266	247	9.3	-7.1	6.8
SOCIAL SCIENCES	188	201	231	171	157	144	222	-4.3	54.2	2.4
AGRICULTURAL ECONOMICS	28	28	6	8	5	9	25	-17.2	177.8	-1.6
ANTHROPOLOGY	28	40	28	27	20	28	45	.0	60.7	7.0
ECONOMICS (EXCEPT AGRICULTURAL)	22	18	40	16	12	6	8	-19.5	33.3	-13.5
GEOGRAPHY	8	8	4	13	22	4	6	-10.9	50.0	-4.0
HISTORY AND PHILOSOPHY OF SCIENCE	1	4	2	1	1	1	1	.0	.0	.0
LINGUISTICS	20	23	15	25	19	16	25	-3.7	56.3	3.2
POLITICAL SCIENCE	16	14	12	12	7	22	27	5.5	22.7	7.8
SOCIOLOGY	50	41	71	50	55	49	62	-.3	26.5	3.1
SOCIOLOGY/ANTHROPOLOGY	0	1	2	3	0	1	0	**	-100.0	**
SOCIAL SCIENCES, N.E.C.	15	24	51	16	16	8	23	-9.9	187.5	6.3

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-37. -- SCIENCE/ENGINEERING POSTDOCTORATES IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	8,462	9,072	8,210	8,120	8,824	8,492	9,065	.1	6.7	1.0
ENGINEERING	629	616	536	455	512	451	500	-5.4	10.9	-3.2
AEROSPACE	22	24	21	8	6	15	17	-6.2	13.3	-3.6
AGRICULTURAL	6	1	0	1	3	4	3	-6.5	-25.0	-9.4
BIOMEDICAL	40	59	25	16	18	12	17	-18.2	41.7	-11.5
CHEMICAL	86	68	63	53	64	58	83	-6.4	43.1	-.5
CIVIL	58	75	76	65	73	38	51	-6.8	34.2	-1.8
ELECTRICAL	92	79	85	70	75	94	70	.4	-25.5	-3.8
ENGINEERING SCIENCE	81	75	68	74	78	66	55	-3.4	-16.7	-5.4
INDUSTRIAL	6	9	1	1	1	0	4	-100.0	**	-5.6
MECHANICAL	91	82	70	66	64	56	84	-7.8	50.0	-1.1
METALLURGICAL/MATERIALS	105	104	107	83	105	82	91	-4.0	11.0	-2.0
MINING	7	7	1	1	9	9	18	4.3	100.0	14.4
NUCLEAR	15	9	4	2	5	1	1	-36.3	.0	-32.1
PETROLEUM	2	1	1	2	2	3	0	7.0	-100.0	-100.0
ENGINEERING, N.E.C.	18	23	14	13	9	13	6	-5.3	-53.8	-14.5
PHYSICAL SCIENCES	1,646	1,744	1,598	1,611	1,692	1,549	1,553	-1.0	.3	-.8
ASTRONOMY	73	81	61	56	65	67	34	-1.4	-49.3	-10.3
CHEMISTRY	1,029	1,045	970	991	1,068	1,006	1,040	-.4	3.4	.2
PHYSICS	544	618	567	549	544	476	479	-2.2	.6	-1.8
PHYSICAL SCIENCES, N.E.C.	0	0	0	15	15	0	0	**	**	**
ENVIRONMENTAL SCIENCES	175	129	119	119	119	105	149	-8.2	41.9	-2.3
ATMOSPHERIC SCIENCES	2	0	8	7	5	3	1	7.0	-66.7	-9.4
GEOSCIENCES	148	114	100	97	93	83	101	-9.2	21.7	-5.3
OCEANOGRAPHY	11	6	8	10	18	14	38	4.1	171.4	19.4
ENVIRONMENTAL SCIENCES, N.E.C.	14	9	3	5	3	5	9	-15.8	80.0	-6.1
MATHEMATICAL/COMPUTER SCIENCES	110	87	105	97	87	148	103	5.1	-30.4	-.9
COMPUTER SCIENCE	29	32	18	17	19	24	34	-3.1	41.7	2.3
MATHEMATICS AND APPLIED MATHEMATICS	76	53	83	75	62	120	64	7.9	-46.7	-2.4
STATISTICS	5	2	4	5	6	4	5	-3.7	25.0	.0
LIFE SCIENCES	5,502	6,089	5,432	5,331	6,027	5,842	6,433	1.0	10.1	2.3
AGRICULTURAL SCIENCES	19	9	11	13	12	15	21	-3.9	40.0	1.4
BIOLOGICAL SCIENCES	2,927	3,043	2,962	3,067	3,310	3,343	3,656	2.2	9.4	3.2
ANATOMY	80	93	112	107	110	117	140	6.5	19.7	8.3
BIOCHEMISTRY	677	686	689	734	731	729	739	1.2	1.4	1.3
BIOLOGY	529	507	578	582	473	488	548	-1.3	12.3	.5
BIOMETRY/EPIDEMIOLOGY	20	34	42	45	33	28	29	5.8	3.6	5.5
BIOPHYSICS	139	145	47	94	111	97	149	-5.8	53.6	1.0
BOTANY	18	19	14	21	29	29	30	8.3	3.4	7.6
CELL BIOLOGY	160	162	202	225	313	320	428	12.2	33.7	15.1
ECOLOGY	2	2	0	0	5	1	1	-10.9	.0	-9.4
ENTOMOLOGY/PARASITOLOGY	10	15	11	11	12	13	5	4.5	-61.5	-9.4
GENETICS	101	101	107	115	136	166	160	8.6	-3.6	6.8
MICROBIOLOGY	328	362	300	280	309	356	376	1.4	5.6	2.0
NUTRITION	116	105	87	63	97	75	82	-7.0	9.3	-4.8
PATHOLOGY	193	245	211	233	259	267	276	5.6	3.4	5.3
PHARMACOLOGY	276	288	269	272	358	343	355	3.7	3.5	3.7
PHYSIOLOGY	243	245	262	262	304	281	308	2.5	9.6	3.4
ZOOLOGY	35	34	30	22	16	18	14	-10.5	-22.2	-12.3
BIOSCIENCES, N.E.C.	0	0	1	1	14	15	16	**	6.7	**
HEALTH SCIENCES	2,556	3,037	2,459	2,251	2,705	2,484	2,756	-.5	11.0	1.1
ANESTHESIOLOGY	35	37	32	30	38	44	42	3.9	-4.5	2.6
CANCER/ONCOLOGY	39	46	29	27	28	22	46	-9.1	109.1	2.4
CARDIOLOGY	236	235	138	138	143	152	132	-7.1	-13.2	-8.0
DENTISTRY	19	195	32	3	105	95	79	30.8	-16.8	22.6
ENDOCRINOLOGY	83	97	61	69	93	56	69	-6.3	23.2	-2.6
GASTROENTEROLOGY	70	94	53	65	62	50	82	-5.5	64.0	2.3
HEMATOLOGY	154	141	91	70	77	65	72	-13.4	10.8	-10.3
NEUROLOGY	122	141	128	159	161	136	174	1.8	27.9	5.2
NURSING	1	0	0	1	1	0	0	-100.0	**	-100.0
OBSTETRICS/GYNECOLOGY	85	84	73	64	65	56	68	-6.7	21.4	-3.1
OPHTHALMOLOGY	110	137	87	80	104	90	76	-3.3	-15.6	-5.1
OTORHINOLARYNGOLOGY	22	11	12	16	22	14	16	-7.3	14.3	-4.4
PEDIATRICS	287	286	340	279	404	369	390	4.3	5.7	4.5
PHARMACEUTICAL SCIENCES	10	17	8	13	13	15	16	7.0	6.7	6.9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	27	36	65	66	72	59	88	13.9	49.2	18.4
PSYCHIATRY	138	207	213	197	185	163	151	2.8	-7.4	1.3
PULMONARY DISEASE	95	109	85	55	50	43	55	-10.8	14.6	-7.5
RADIOLOGY	104	136	105	111	112	116	123	1.8	6.0	2.4
SPEECH PATHOLOGY/AUDIOLOGY	1	1	13	12	11	2	2	11.2	.0	10.4
SURGERY	237	240	165	189	166	197	226	-3.0	14.7	-.7
VETERINARY SCIENCES	25	21	7	18	11	14	18	-9.2	28.6	-4.6
CLINICAL MEDICINE, N.E.C.	639	738	693	539	735	680	784	1.0	15.3	3.0
HEALTH RELATED, N.E.C.	17	18	29	50	45	41	47	15.8	14.6	15.6
PSYCHOLOGY	244	250	251	240	212	254	189	.7	-25.6	-3.6
SOCIAL SCIENCES	156	157	169	267	175	143	138	-1.4	-3.5	-1.7
AGRICULTURAL ECONOMICS	2	0	0	0	1	1	3	-10.9	200.0	6.0
ANTHROPOLOGY	17	13	13	13	10	6	15	-15.9	150.0	-1.8
ECONOMICS (EXCEPT AGRICULTURAL)	35	47	59	130	18	7	12	-23.5	71.4	-14.2
GEOGRAPHY	4	1	1	2	1	1	1	-20.6	.0	-18.0
HISTORY AND PHILOSOPHY OF SCIENCE	11	18	9	14	20	13	18	2.8	38.5	7.3
LINGUISTICS	12	6	15	29	28	31	26	17.1	-16.1	11.7
POLITICAL SCIENCE	12	13	17	18	39	22	16	10.6	-27.3	4.2
SOCIOLOGY	61	55	44	49	35	40	40	-6.8	.0	-5.9
SOCIOLOGY/ANTHROPOLOGY	0	0	2	0	0	1	1	**	.0	**
SOCIAL SCIENCES, N.E.C.	2	4	9	12	23	21	6	48.0	-71.4	17.0

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-30. -- SCIENCE/ENGINEERING POSTDOCTORATES SUPPORTED BY FEDERAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	13,055	13,328	13,458	13,651	14,592	13,864	15,048	1.0	8.5	2.1
ENGINEERING	868	932	769	688	745	672	765	-4.2	13.8	-1.8
AEROSPACE	31	39	27	19	11	19	28	-7.8	47.4	-1.4
AGRICULTURAL	15	9	11	4	3	2	1	-28.5	-50.0	-32.1
BIOMEDICAL	38	47	30	24	29	27	26	-5.5	-3.7	-5.3
CHEMICAL	151	159	128	120	107	100	101	-6.6	1.0	-5.6
CIVIL	78	102	83	90	80	66	91	-2.7	37.9	2.2
ELECTRICAL	131	140	100	79	150	118	102	-1.7	-13.6	-3.5
ENGINEERING SCIENCE	80	74	65	61	59	65	64	-3.4	-1.5	-3.1
INDUSTRIAL	9	8	5	12	10	3	7	-16.7	133.3	-3.5
MECHANICAL	120	120	112	86	84	94	157	-4.0	67.0	3.9
METALLURGICAL/MATERIALS	159	171	149	129	149	121	149	-4.4	23.1	-.9
MINING	15	13	5	3	15	1	1	-36.3	.0	-32.1
NUCLEAR	17	10	6	14	17	15	13	-2.1	-13.3	-3.8
PETROLEUM	2	4	6	2	2	3	1	7.0	-66.7	-9.4
ENGINEERING, N.E.C.	22	36	42	45	29	38	24	9.5	-36.8	1.3
PHYSICAL SCIENCES	3,267	3,418	3,322	3,599	3,805	3,600	3,758	1.6	4.4	2.0
ASTRONOMY	107	127	103	123	119	135	91	4.0	-32.6	-2.3
CHEMISTRY	2,035	2,112	2,147	2,255	2,471	2,307	2,499	2.1	8.3	3.0
PHYSICS	1,124	1,179	1,072	1,210	1,215	1,156	1,165	.5	.8	.5
PHYSICAL SCIENCES, N.E.C.	1	1	0	11	0	2	3	12.2	50.0	17.0
ENVIRONMENTAL SCIENCES	303	306	253	253	288	255	314	-2.8	23.1	.5
ATMOSPHERIC SCIENCES	45	45	29	42	45	28	39	-7.6	39.3	-2.0
GEOSCIENCES	209	204	175	156	181	163	166	-4.1	1.8	-3.2
OCEANOGRAPHY	38	47	41	44	50	58	98	7.3	69.0	14.5
ENVIRONMENTAL SCIENCES, N.E.C.	11	10	8	11	12	6	11	-9.6	83.3	.0
MATHEMATICAL/COMPUTER SCIENCES	89	91	102	90	84	71	130	-3.7	83.1	5.6
COMPUTER SCIENCE	39	51	26	33	20	25	47	-7.1	88.0	2.7
MATHEMATICS AND APPLIED MATHEMATICS	44	35	65	52	57	39	56	-2.0	43.6	3.5
STATISTICS	6	5	11	5	7	7	27	2.6	285.7	24.0
LIFE SCIENCES	8,111	8,186	8,499	8,456	9,118	8,734	9,568	1.2	9.5	2.4
AGRICULTURAL SCIENCES	192	170	128	152	194	166	169	-2.4	1.8	-1.8
BIOLOGICAL SCIENCES	4,894	4,983	5,462	5,558	5,939	5,825	6,323	2.9	8.5	3.7
ANATOMY	131	150	191	179	188	185	227	5.9	22.7	8.2
BIOCHEMISTRY	1,168	1,173	1,235	1,266	1,335	1,300	1,410	1.8	8.5	2.7
BIOLOGY	652	609	752	790	726	711	764	1.7	7.7	2.3
BIOMETRY/EPIDEMIOLOGY	29	42	54	58	60	41	34	5.9	-17.1	2.3
BIOPHYSICS	195	198	83	125	122	115	168	-7.4	46.1	-2.1
BOTANY	94	108	104	159	182	213	259	14.6	21.6	15.6
CELL BIOLOGY	262	235	268	317	419	398	484	7.2	21.6	9.2
ECOLOGY	7	14	17	19	33	22	32	21.0	45.5	24.2
ENTOMOLOGY/PARASITOLOGY	85	82	78	88	102	88	75	.6	-14.8	-1.8
GENETICS	164	168	213	194	201	233	266	6.0	5.6	6.0
MICROBIOLOGY	588	651	688	688	740	770	746	4.6	-3.1	3.5
NUTRITION	102	118	130	86	119	86	81	-2.8	-5.8	-3.2
PATHOLOGY	282	311	352	355	309	350	384	3.7	9.7	4.5
PHARMACOLOGY	452	483	521	513	582	576	607	4.1	5.4	4.3
PHYSIOLOGY	479	480	557	526	603	524	596	1.5	13.7	3.2
ZOOLOGY	176	130	166	137	161	163	150	-1.3	-8.0	-2.3
BIOSCIENCES, N.E.C.	28	31	53	58	57	50	58	10.1	16.0	11.0
HEALTH SCIENCES	3,025	3,033	2,909	2,746	2,985	2,743	3,076	-1.6	12.1	.2
ANESTHESIOLOGY	43	33	29	29	21	25	31	-8.6	24.0	-4.6
CANCER/ONCOLOGY	101	82	100	110	96	83	124	-3.2	49.4	3.0
CARDIOLOGY	253	236	167	194	171	206	189	-3.4	-8.3	-4.1
DENTISTRY	27	47	30	37	47	50	94	10.8	88.0	19.5
ENDOCRINOLOGY	120	106	74	92	130	96	116	-3.7	20.8	-.5
GASTROENTEROLOGY	86	95	41	55	85	76	97	-2.0	27.6	1.7
HEMATOLOGY	175	161	111	103	113	118	122	-6.4	3.4	-5.0
NEUROLOGY	134	161	196	219	183	173	211	4.3	22.0	6.7
NURSING	1	0	6	9	8	0	1	-100.0	**	.0
OBSTETRICS/GYNECOLOGY	77	75	55	51	45	50	53	-6.9	6.0	-5.2
OPHTHALMOLOGY	108	132	93	72	95	77	78	-5.5	1.3	-4.5
OTORHINOLARYNGOLOGY	17	16	20	22	20	11	16	-7.0	45.5	-.9
PEDIATRICS	312	242	310	230	329	274	281	-2.1	2.6	-1.5
PHARMACEUTICAL SCIENCES	169	174	194	201	189	159	168	-1.0	5.7	-.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	94	75	73	121	89	82	105	-2.3	28.0	1.6
PSYCHIATRY	167	213	242	201	207	216	197	4.4	-8.8	2.4
PULMONARY DISEASE	103	98	82	61	76	71	81	-6.0	14.1	-3.4
RADIOLOGY	155	114	98	97	123	115	115	-4.9	.0	-4.2
SPEECH PATHOLOGY/AUDIOLOGY	17	18	32	16	18	10	15	-8.5	50.0	-1.8
SURGERY	206	208	165	181	174	144	169	-5.8	17.4	-2.8
VETERINARY SCIENCES	30	43	13	36	18	22	33	-5.0	50.0	1.4
CLINICAL MEDICINE, N.E.C.	608	651	710	541	667	622	716	.4	15.1	2.4
HEALTH RELATED, N.E.C.	22	53	68	68	81	63	64	19.2	1.6	16.5
PSYCHOLOGY	257	240	282	303	372	392	333	7.3	-15.1	3.8
SOCIAL SCIENCES	160	155	231	262	180	140	180	-2.2	28.6	1.7
AGRICULTURAL ECONOMICS	23	7	3	6	3	3	20	-28.8	566.7	-2.0
ANTHROPOLOGY	27	24	28	31	20	22	27	-3.4	22.7	.0
ECONOMICS (EXCEPT AGRICULTURAL)	14	12	36	84	19	8	8	-8.9	.0	-7.7
GEOGRAPHY	1	4	2	6	2	3	2	20.1	-33.3	10.4
HISTORY AND PHILOSOPHY OF SCIENCE	1	6	2	5	7	5	9	30.8	80.0	36.9
LINGUISTICS	8	7	6	19	7	9	6	2.0	-33.3	-4.0
POLITICAL SCIENCE	11	14	15	9	40	15	16	5.3	6.7	5.5
SOCIOLOGY	63	69	94	82	73	67	80	1.0	19.4	3.5
SOCIOLOGY/ANTHROPOLOGY	0	0	4	3	0	1	0	**	-100.0	**
SOCIAL SCIENCES, N.E.C.	12	12	41	17	9	7	12	-8.6	71.4	.0

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-39. — SCIENCE/ENGINEERING POSTDOCTORATES SUPPORTED BY NON-FEDERAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	5,397	6,159	4,628	4,760	5,054	5,502	5,742	.3	4.4	.9
ENGINEERING	343	313	298	290	295	306	344	-1.9	12.4	*
AEROSPACE	5	7	5	1	3	6	4	3.1	-33.3	-3.1
AGRICULTURAL	17	11	14	5	6	4	3	-21.4	-25.0	-21.9
BIOMEDICAL	17	26	2	4	5	4	2	-21.4	-50.0	-26.3
CHEMICAL	70	51	64	63	64	74	97	.9	31.1	4.8
CIVIL	47	54	45	34	27	42	40	7.6	-4.8	5.8
ELECTRICAL	49	31	42	42	41	58	78	4.3	34.5	8.2
ENGINEERING SCIENCE	12	17	9	18	28	11	7	-1.4	-36.4	-7.4
INDUSTRIAL	6	12	3	4	3	6	7	.0	16.7	2.2
MECHANICAL	61	41	31	51	44	36	25	-8.4	-30.6	-12.0
METALLURGICAL/MATERIALS	54	38	60	43	44	45	55	-3.0	22.2	.3
MINING	1	1	0	0	1	9	18	44.2	100.0	51.1
NUCLEAR	15	11	14	8	9	3	2	-23.5	-33.3	-25.0
PETROLEUM	0	1	0	4	0	1	0	**	-100.0	**
ENGINEERING, N.E.C.	13	12	9	13	18	7	6	-9.8	-14.3	-10.5
PHYSICAL SCIENCES	767	779	702	665	657	681	686	-2.0	.7	-1.6
ASTRONOMY	34	41	29	18	13	13	20	-14.8	53.8	-7.3
CHEMISTRY	575	547	457	455	399	498	480	-2.4	-3.6	-2.5
PHYSICS	157	190	215	188	230	170	185	1.3	8.8	2.4
PHYSICAL SCIENCES, N.E.C.	1	1	2	4	15	0	1	-100.0	**	.0
ENVIRONMENTAL SCIENCES	92	49	62	55	51	80	100	-2.3	25.0	1.2
ATMOSPHERIC SCIENCES	2	3	2	1	1	4	2	12.2	-50.0	.0
GEOSCIENCES	63	38	44	38	32	53	71	-2.8	34.0	1.7
OCEANOGRAPHY	18	17	13	13	17	20	22	1.8	10.0	2.9
ENVIRONMENTAL SCIENCES, N.E.C.	9	11	3	3	1	3	5	-16.7	66.7	-8.1
MATHEMATICAL/COMPUTER SCIENCES	101	54	98	115	63	169	122	9.0	-27.8	2.7
COMPUTER SCIENCE	21	8	12	10	14	21	35	.0	66.7	7.6
MATHEMATICS AND APPLIED MATHEMATICS	63	35	74	89	45	141	81	14.4	-42.6	3.7
STATISTICS	17	11	12	16	4	7	6	-13.7	-14.3	-13.8
LIFE SCIENCES	3,767	4,582	3,126	3,287	3,737	3,991	4,207	1.0	5.4	1.6
AGRICULTURAL SCIENCES	142	123	87	87	90	113	129	-3.7	14.2	-1.4
BIOLOGICAL SCIENCES	1,417	1,633	1,413	1,548	1,767	1,931	2,081	5.3	7.8	5.6
ANATOMY	38	57	53	58	60	76	70	12.2	-7.9	9.1
BIOCHEMISTRY	286	273	327	333	389	384	376	5.0	-2.1	4.0
BIOLOGY	176	223	213	199	144	231	232	4.6	.4	4.0
BIOMETRY/EPIDEMIOLOGY	8	23	14	14	4	12	20	7.0	66.7	14.0
BIOPHYSICS	25	21	18	26	33	14	16	-7.2	14.3	-6.2
BOTANY	86	80	59	61	58	85	110	-.2	29.4	3.6
CELL BIOLOGY	47	79	84	93	113	118	136	16.6	15.3	16.4
ECOLOGY	1	4	1	3	11	6	7	34.8	16.7	32.0
ENTOMOLOGY/PARASITOLOGY	38	37	26	31	31	31	37	-3.3	19.4	-.4
GENETICS	49	48	26	64	97	81	98	8.7	21.0	10.4
MICROBIOLOGY	202	255	173	185	227	244	271	3.2	11.1	4.3
NUTRITION	68	54	40	43	52	52	70	-4.4	34.6	.4
PATHOLOGY	90	121	77	122	159	190	200	13.3	5.3	12.1
PHARMACOLOGY	109	139	116	111	173	201	194	10.7	-3.5	8.6
PHYSIOLOGY	102	135	124	142	155	149	177	6.5	18.8	8.2
ZOOLOGY	64	59	49	56	46	40	53	-7.5	32.5	-2.7
BIOSCIENCES, N.E.C.	28	25	13	7	15	17	14	-8.0	-17.6	-9.4
HEALTH SCIENCES	2,208	2,826	1,626	1,652	1,880	1,947	1,997	-2.1	2.6	-1.4
ANESTHESIOLOGY	21	42	33	25	45	33	28	7.8	-15.2	4.2
CANCER/ONCOLOGY	26	54	14	25	33	17	33	-6.8	94.1	3.5
CARDIOLOGY	244	266	131	140	162	167	147	-6.1	-12.0	-7.0
DENTISTRY	35	261	72	42	92	196	103	33.3	-47.4	16.7
ENDOCRINOLOGY	78	89	34	44	34	43	57	-9.4	32.6	-4.4
GASTROENTEROLOGY	82	103	62	68	28	36	51	-12.8	41.7	-6.6
HEMATOLOGY	96	87	40	45	40	49	32	-23.7	68.4	-14.5
NEUROLOGY	57	97	69	64	104	81	90	6.0	11.1	6.7
NURSING	0	0	1	0	0	0	5	**	**	**
OBSTETRICS/GYNECOLOGY	105	92	88	71	68	51	63	-11.3	23.5	-7.0
OPHTHALMOLOGY	55	54	45	50	49	62	59	2.0	-4.8	1.0
OTORHINOLARYNGOLOGY	24	13	14	22	18	6	7	-20.6	16.7	-16.1
PEDIATRICS	220	272	201	203	258	256	264	2.6	3.1	2.6
PHARMACEUTICAL SCIENCES	33	63	41	32	54	79	73	15.7	-7.6	12.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	56	38	39	40	46	61	56	1.4	-8.2	.0
PSYCHIATRY	114	116	50	94	82	66	67	-8.7	1.5	-7.3
PULMONARY DISEASE	104	130	61	66	46	60	68	-8.8	13.3	-5.9
RADIOLOGY	27	76	40	59	32	49	72	10.4	46.9	15.0
SPEECH PATHOLOGY/AUDIOLOGY	2	14	4	2	1	0	3	-100.0	**	6.0
SURGERY	200	253	116	126	131	179	221	-1.8	23.5	1.4
VETERINARY SCIENCES	31	32	9	16	13	27	17	-2.3	-37.0	-8.2
CLINICAL MEDICINE, N.E.C.	583	664	435	384	512	430	444	-4.9	3.3	-3.8
HEALTH RELATED, N.E.C.	15	10	27	34	32	29	37	11.6	27.6	13.8
PSYCHOLOGY	143	159	172	172	99	128	103	-1.8	-19.5	-4.6
SOCIAL SCIENCES	184	203	169	176	152	147	180	-3.7	22.4	-.3
AGRICULTURAL ECONOMICS	7	21	3	2	3	7	8	.0	14.3	1.9
ANTHROPOLOGY	18	29	13	9	10	12	33	-6.5	175.0	9.0
ECONOMICS (EXCEPT AGRICULTURAL)	43	53	63	62	11	5	12	-30.1	140.0	-16.7
GEOGRAPHY	11	5	3	9	21	2	5	-24.7	150.0	-10.7
HISTORY AND PHILOSOPHY OF SCIENCE	11	16	9	10	14	9	10	-3.3	11.1	-1.4
LINGUISTICS	24	22	24	35	40	38	45	8.0	18.4	9.4
POLITICAL SCIENCE	17	13	14	21	6	29	27	9.3	-6.9	6.8
SOCIOLOGY	48	27	21	17	17	22	22	-12.2	.0	-10.5
SOCIOLOGY/ANTHROPOLOGY	0	1	0	0	0	1	1	**	.0	**
SOCIAL SCIENCES, N.E.C.	5	16	19	11	30	22	17	28.0	-22.7	19.1

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-40. — SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1976-77 AND 1979-83 1/

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL INSTITUTIONS	18,452	19,487	18,086	18,411	19,646	19,366	20,790	.8	7.4	1.7
NEW ENGLAND	2,559	3,042	2,583	2,615	2,950	2,906	3,211	2.1	10.5	3.3
CONNECTICUT	600	744	543	701	699	694	743	2.5	7.1	3.1
MAINE	17	20	9	8	1	7	9	-13.7	28.6	-8.7
MASSACHUSETTS	1,742	2,076	1,857	1,695	2,048	2,056	2,302	2.8	12.0	4.1
NEW HAMPSHIRE	52	49	34	46	38	35	49	-6.4	40.0	-.8
RHODE ISLAND	90	98	85	108	95	64	57	-5.5	-10.9	-6.3
VERMONT	58	55	55	57	69	50	51	-2.4	2.0	-1.8
MIDDLE ATLANTIC	3,508	3,601	3,406	3,401	3,464	3,346	3,558	-.8	6.3	.2
NEW JERSEY	346	378	312	305	307	334	353	-.6	5.7	.3
NEW YORK	2,194	2,306	2,274	2,325	2,310	2,202	2,210	.1	.4	.1
PENNSYLVANIA	968	917	820	771	847	810	995	-2.9	22.8	.4
EAST NORTH CENTRAL	2,571	2,614	2,461	2,531	2,721	2,666	2,710	.6	1.7	.8
ILLINOIS	808	870	794	768	887	837	864	.6	3.2	1.0
INDIANA	357	332	330	340	377	462	420	4.4	-9.1	2.3
MICHIGAN	413	407	370	449	437	461	493	1.8	6.9	2.6
OHIO	573	554	493	498	514	498	485	-2.3	-2.6	-2.4
WISCONSIN	420	451	474	476	506	408	448	-.5	9.8	.9
WEST NORTH CENTRAL	1,221	1,267	1,241	1,294	1,340	1,316	1,321	1.3	.4	1.1
IOWA	233	248	261	270	248	252	266	1.3	5.6	1.9
KANSAS	143	158	159	157	163	165	165	2.4	.0	2.1
MINNESOTA	323	316	309	324	359	360	363	1.8	.8	1.7
MISSOURI	450	441	424	445	459	448	442	-.1	-1.3	-.3
NEBRASKA	46	77	70	70	85	63	57	5.4	-9.5	3.1
NORTH DAKOTA	14	23	17	25	23	25	21	10.1	-16.0	6.0
SOUTH DAKOTA	12	4	1	3	3	3	7	-20.6	133.3	-7.4
SOUTH ATLANTIC	2,209	2,230	2,045	2,175	2,268	2,349	2,421	1.0	3.1	1.3
DELAWARE	51	51	48	37	9	12	30	-21.4	150.0	-7.3
DISTRICT OF COLUMBIA	131	196	107	126	145	101	114	-4.2	12.9	-2.0
FLORIDA	319	327	247	236	283	296	313	-1.2	5.7	-.3
GEORGIA	282	198	183	170	227	280	251	-.1	-10.4	-1.6
MARYLAND	461	536	502	544	605	641	647	5.6	.9	5.0
NORTH CAROLINA	547	528	576	615	560	547	608	-.6	11.2	1.0
SOUTH CAROLINA	85	64	55	92	82	106	93	3.7	-12.3	1.3
VIRGINIA	295	303	253	319	323	330	333	1.9	.9	1.7
WEST VIRGINIA	18	27	34	34	34	36	32	12.2	-11.1	8.6
EAST SOUTH CENTRAL	687	704	679	590	621	570	590	-2.9	3.5	-2.0
ALABAMA	206	250	219	203	164	163	155	-3.8	-4.9	-4.0
KENTUCKY	153	96	90	65	99	116	148	-4.5	27.6	-.5
MISSISSIPPI	54	63	57	41	35	40	39	-4.9	-2.5	-4.5
TENNESSEE	269	295	313	281	323	251	248	-1.1	-1.2	-1.2
WEST SOUTH CENTRAL	1,081	1,303	1,308	1,207	1,378	1,452	1,535	5.0	5.7	5.1
ARKANSAS	29	9	15	10	24	21	29	-5.2	38.1	.0
LOUISIANA	160	215	142	155	114	100	175	-7.5	75.0	1.3
OKLAHOMA	96	96	76	94	86	113	118	2.8	4.4	3.0
TEXAS	796	983	1,075	948	1,154	1,218	1,213	7.3	-.4	6.2
MOUNTAIN	782	952	731	822	969	897	991	2.3	10.5	3.4
ARIZONA	162	204	202	213	275	240	275	6.8	14.6	7.9
COLORADO	297	394	285	349	382	372	386	3.8	3.8	3.8
IDAHO	42	47	12	26	13	18	17	-13.2	-5.6	-12.1
MONTANA	29	47	38	24	22	26	37	-1.8	42.3	3.5
NEVADA	5	6	14	19	16	12	22	15.7	83.3	23.6
NEW MEXICO	37	47	46	52	52	49	41	4.8	-16.3	1.5
UTAH	196	196	125	139	198	166	201	-2.7	21.1	.4
WYOMING	14	11	9	0	11	14	12	.0	-14.3	-2.2
PACIFIC	3,814	3,732	3,618	3,760	3,922	3,853	4,442	.2	15.3	2.2
ALASKA	8	8	3	4	3	3	3	-15.1	.0	-13.1
CALIFORNIA	3,016	3,069	2,990	3,167	3,262	3,176	3,687	.9	16.1	2.9
HAWAII	63	36	76	52	33	38	30	-8.1	-21.1	-10.1
OREGON	185	178	148	124	154	128	173	-6.0	35.2	-1.0
WASHINGTON	542	441	401	414	470	508	549	-1.1	8.1	.2
OUTLYING AREAS	25	42	14	16	13	11	11	-12.8	.0	-11.1

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-41. — MALE SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	14,749	14,868	15,555	14,997	15,984	.6	6.6
ENGINEERING	1,017	913	959	895	1,022	-4.2	14.2
AEROSPACE	32	20	12	25	32	-7.9	28.0
AGRICULTURAL	24	8	9	6	4	-37.0	-33.3
BIOMEDICAL	26	23	28	25	24	-1.3	-4.0
CHEMICAL	160	162	160	153	172	-5.3	12.4
CIVIL	123	114	99	101	125	-6.4	23.8
ELECTRICAL	139	116	181	160	169	4.8	5.6
ENGINEERING SCIENCE	70	74	84	70	68	.0	-2.9
INDUSTRIAL	7	16	10	8	12	4.6	50.0
MECHANICAL	141	134	120	125	176	-3.9	40.8
METALLURGICAL/MATERIALS	198	160	178	151	180	-8.6	19.2
MINING	5	3	11	10	19	26.0	90.0
NUCLEAR	18	21	22	16	14	-3.9	-12.5
PETROLEUM	6	6	2	3	0	-20.6	-100.0
ENGINEERING, N.E.C.	48	56	43	42	27	-4.4	-35.7
PHYSICAL SCIENCES	3,641	3,835	3,985	3,768	3,909	1.1	3.7
ASTRONOMY	122	128	122	133	93	2.9	-30.1
CHEMISTRY	2,301	2,380	2,502	2,409	2,551	1.5	5.9
PHYSICS	1,217	1,312	1,346	1,224	1,262	.2	3.1
PHYSICAL SCIENCES, N.E.C.	1	15	15	2	3	26.0	50.0
ENVIRONMENTAL SCIENCES	235	274	306	286	352	.1	23.1
ATMOSPHERIC SCIENCES	30	41	42	30	37	.0	23.3
GEOSCIENCES	193	172	193	186	209	-1.2	12.4
OCEANOGRAPHY	51	48	58	61	91	6.1	49.2
ENVIRONMENTAL SCIENCES, N.E.C.	11	13	13	9	15	-6.5	66.7
MATHEMATICAL/COMPUTER SCIENCES	178	189	128	215	226	6.5	5.1
COMPUTER SCIENCE	36	41	28	37	72	.9	94.6
MATHEMATICS AND APPLIED MATHEMATICS	122	128	90	168	126	11.3	-25.0
STATISTICS	20	20	10	10	28	-20.6	180.0
LIFE SCIENCES	9,070	9,039	9,662	9,358	9,975	1.0	6.6
AGRICULTURAL SCIENCES	189	209	249	246	244	9.2	-.8
BIOLOGICAL SCIENCES	5,169	5,300	5,680	5,547	5,991	2.4	8.0
ANATOMY	178	170	175	187	210	1.7	12.3
BIOCHEMISTRY	1,209	1,211	1,308	1,218	1,281	.2	5.2
BIOLOGY	702	699	590	641	673	-3.0	5.0
BIOMETRY/EPIDEMIOLOGY	40	47	41	36	31	-3.5	-13.9
BIOPHYSICS	79	114	130	105	135	9.9	28.6
BOTANY	124	161	178	209	272	19.0	30.1
CELL BIOLOGY	257	295	378	355	436	11.4	22.8
ECOLOGY	17	19	33	24	37	12.2	54.2
ENTOMOLOGY/PARASITOLOGY	81	90	109	105	93	9.0	-11.4
GENETICS	165	170	188	192	219	5.2	14.1
MICROBIOLOGY	625	642	694	714	710	4.5	-.6
NUTRITION	121	98	121	99	105	-6.5	6.1
PATHOLOGY	326	343	367	359	398	3.3	10.9
PHARMACOLOGY	496	495	599	612	602	7.3	-1.6
PHYSIOLOGY	546	528	580	506	590	-2.5	16.6
ZOOLOGY	155	141	134	135	145	-4.5	7.4
BIOSCIENCES, N.E.C.	48	47	55	50	54	1.4	8.0
HEALTH SCIENCES	3,712	3,530	3,733	3,565	3,740	-1.3	4.9
ANESTHESIOLOGY	59	49	50	36	44	-15.2	22.2
CANCER/ONCOLOGY	100	114	96	73	106	-10.0	45.2
CARDIOLOGY	270	292	289	309	287	4.6	-7.1
DENTISTRY	82	62	117	203	156	35.3	-23.2
ENDOCRINOLOGY	90	107	133	95	122	1.8	28.4
GASTROENTEROLOGY	84	106	92	95	135	4.2	42.1
HEMATOLOGY	129	125	123	99	104	-8.4	5.1
NEUROLOGY	226	227	231	201	216	-3.8	7.5
NURSING	3	2	6	0	1	-100.0	**
OBSTETRICS/GYNECOLOGY	118	94	75	70	81	-16.0	15.7
OPHTHALMOLOGY	108	96	111	106	92	-.6	-13.2
OTORHINOLARYNGOLOGY	29	40	33	17	21	-16.3	23.5
PEDIATRICS	375	312	381	354	349	-1.9	-1.4
PHARMACEUTICAL SCIENCES	202	209	207	185	187	-2.9	1.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	89	101	88	94	112	1.8	19.1
PSYCHIATRY	197	199	178	172	163	-4.4	-5.2
PULMONARY DISEASE	132	114	113	113	113	-5.0	.0
RADIOLOGY	116	134	116	131	152	4.1	16.0
SPEECH PATHOLOGY/AUDIOLOGY	20	11	11	5	8	-37.0	60.0
SURGERY	248	282	284	294	343	5.8	16.7
VETERINARY SCIENCES	15	37	17	26	31	20.1	19.2
CLINICAL MEDICINE, N.E.C.	950	751	900	825	857	-4.6	3.9
HEALTH RELATED, N.E.C.	70	66	82	62	60	-4.0	-3.2
PSYCHOLOGY	298	302	290	302	258	.4	-14.6
SOCIAL SCIENCES	240	316	225	173	244	-12.7	41.0
AGRICULTURAL ECONOMICS	6	8	6	9	22	14.5	144.4
ANTHROPOLOGY	25	23	16	14	33	-17.6	135.7
ECONOMICS (EXCEPT AGRICULTURAL)	82	121	22	10	16	-50.4	60.0
GEOGRAPHY	2	12	16	4	7	26.0	75.0
HISTORY AND PHILOSOPHY OF SCIENCE	8	12	15	7	13	-4.4	85.7
LINGUISTICS	19	38	32	28	29	13.8	3.6
POLITICAL SCIENCE	17	23	37	28	37	18.1	32.1
SOCIOLOGY	73	97	54	52	64	-10.7	23.1
SOCIOLOGY/ANTHROPOLOGY	2	1	0	1	1	-20.6	.0
SOCIAL SCIENCES, N.E.C.	26	21	27	20	22	-8.4	10.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-42. — FEMALE SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	3,337	3,543	4,091	4,369	4,804	9.4	10.0
ENGINEERING	50	65	81	83	87	18.4	4.8
AEROSPACE	0	0	2	0	0	**	**
AGRICULTURAL	1	1	0	0	0	-100.0	**
BIOMEDICAL	6	5	6	6	4	.0	-33.3
CHEMICAL	12	21	11	21	26	20.5	23.8
CIVIL	5	10	8	7	6	11.9	-14.3
ELECTRICAL	3	5	10	16	11	74.7	-31.3
ENGINEERING SCIENCE	4	5	3	6	3	14.5	-50.0
INDUSTRIAL	1	0	3	1	2	.0	100.0
MECHANICAL	2	3	10	5	4	35.7	20.0
METALLURGICAL/MATERIALS	11	12	15	15	24	10.9	60.0
MINING	0	0	5	0	0	**	**
NUCLEAR	2	1	4	2	1	.0	-50.0
PETROLEUM	0	0	0	1	1	**	.0
ENGINEERING, N.E.C.	3	2	4	3	3	.0	.0
PHYSICAL SCIENCES	384	429	477	513	535	10.1	4.3
ASTRONOMY	10	13	10	15	18	14.5	20.0
CHEMISTRY	303	330	368	396	428	9.3	8.1
PHYSICS	70	86	99	102	88	13.4	-13.7
PHYSICAL SCIENCES, N.E.C.	1	0	0	0	1	-100.0	**
ENVIRONMENTAL SCIENCES	30	34	33	49	62	17.8	26.5
ATMOSPHERIC SCIENCES	1	2	4	2	4	26.0	100.0
GEOSCIENCES	26	22	20	30	28	4.9	-6.7
OCEANOGRAPHY	3	9	9	17	29	78.3	70.6
ENVIRONMENTAL SCIENCES, N.E.C.	0	1	0	0	1	**	**
MATHEMATICAL/COMPUTER SCIENCES	22	16	19	25	26	4.4	4.0
COMPUTER SCIENCE	2	2	6	9	10	65.1	11.1
MATHEMATICS AND APPLIED MATHEMATICS	17	13	12	12	11	-11.0	-8.3
STATISTICS	3	1	1	4	5	10.1	25.0
LIFE SCIENCES	2,555	2,704	3,193	3,367	3,800	9.6	12.9
AGRICULTURAL SCIENCES	26	30	35	33	54	8.3	63.6
BIOLOGICAL SCIENCES	1,706	1,806	2,026	2,209	2,413	9.0	9.2
ANATOMY	66	67	73	74	87	3.9	17.6
BIOCHEMISTRY	353	388	416	466	505	9.7	8.4
BIOLOGY	263	290	280	301	325	4.6	8.0
BIOMETRY/EPIDEMIOLOGY	28	25	23	17	23	-15.3	35.3
BIOPHYSICS	22	37	25	24	49	2.9	104.2
BOTANY	39	59	62	89	97	31.7	9.0
CELL BIOLOGY	95	115	154	161	184	19.2	14.3
ECOLOGY	1	3	11	4	2	58.7	-50.0
ENTOMOLOGY/PARASITOLOGY	23	19	24	14	19	-15.3	35.7
GENETICS	74	88	110	122	125	18.1	2.5
MICROBIOLOGY	236	231	273	300	307	8.3	2.3
NUTRITION	49	31	50	39	46	-7.3	17.9
PATHOLOGY	103	114	101	181	186	20.7	2.8
PHARMACOLOGY	141	129	156	165	199	5.4	20.6
PHYSIOLOGY	135	140	178	167	183	7.3	9.6
ZOOLOGY	60	52	73	68	58	4.3	-14.7
BIOSCIENCES, N.E.C.	18	18	17	17	18	-1.9	5.9
HEALTH SCIENCES	823	868	1,132	1,125	1,333	11.0	18.5
ANESTHESIOLOGY	3	5	16	22	15	94.3	-31.8
CANCER/ONCOLOGY	14	21	33	27	51	24.5	88.9
CARDIOLOGY	28	42	45	64	49	31.7	-23.4
DENTISTRY	20	17	22	43	41	29.1	-4.7
ENDOCRINOLOGY	18	29	31	44	51	34.7	15.9
GASTROENTEROLOGY	19	17	21	17	13	-3.6	-23.5
HEMATOLOGY	22	23	30	38	50	20.0	31.6
NEUROLOGY	39	56	56	53	85	10.8	60.4
NURSING	4	7	2	0	5	-100.0	**
OBSTETRICS/GYNECOLOGY	25	28	38	31	35	7.4	12.9
OPHTHALMOLOGY	30	26	33	33	45	3.2	36.4
OTORHINOLARYNGOLOGY	5	4	5	0	2	-100.0	**
PEDIATRICS	136	121	204	176	196	9.0	11.4
PHARMACEUTICAL SCIENCES	33	24	36	53	54	17.1	1.9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	23	40	47	49	49	28.7	.0
PSYCHIATRY	95	96	121	110	101	5.0	-8.2
PULMONARY DISEASE	11	13	9	18	36	17.8	100.0
RADIOLOGY	22	22	39	33	35	14.5	6.1
SPEECH PATHOLOGY/AUDIOLOGY	16	7	8	5	10	-32.1	100.0
SURGERY	33	25	21	29	47	-4.2	62.1
VETERINARY SCIENCES	7	15	14	23	19	48.7	-17.4
CLINICAL MEDICINE, N.E.C.	195	174	279	227	303	5.2	33.5
HEALTH RELATED, N.E.C.	25	36	31	30	41	6.3	36.7
PSYCHOLOGY	156	173	181	218	178	11.8	-18.3
SOCIAL SCIENCES	140	122	107	114	116	-6.6	1.8
AGRICULTURAL ECONOMICS	0	0	0	1	6	**	500.0
ANTHROPOLOGY	16	17	14	20	27	7.7	35.0
ECONOMICS (EXCEPT AGRICULTURAL)	17	25	8	3	4	-43.9	33.3
GEOGRAPHY	3	3	7	1	0	-30.7	-100.0
HISTORY AND PHILOSOPHY OF SCIENCE	3	3	6	7	6	32.6	-14.3
LINGUISTICS	11	16	15	19	22	20.0	15.8
POLITICAL SCIENCE	12	7	9	16	6	10.1	-62.5
SOCIOLOGY	42	42	36	37	38	-4.1	2.7
SOCIOLOGY/ANTHROPOLOGY	2	2	0	1	0	-20.6	-100.0
SOCIAL SCIENCES, N.E.C.	34	7	12	9	7	-35.8	-22.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-43. -- SCIENCE/ENGINEERING POSTDOCTORATES WITH U.S. CITIZENSHIP IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-83 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1983	1977-82	1982-83	1977-83
TOTAL, ALL FIELDS	13,336	12,032	11,905	12,349	12,131	13,248	-1.9	9.2	-.1
ENGINEERING	592	414	302	331	321	416	-11.5	29.6	-5.7
AEROSPACE	18	9	6	8	6	8	-19.7	33.3	-12.6
AGRICULTURAL	14	20	4	4	3	3	-26.5	.0	-22.6
BIOMEDICAL	59	22	17	20	25	20	-15.8	-20.0	-16.5
CHEMICAL	80	65	46	43	41	55	-12.5	34.1	-6.1
CIVIL	62	58	59	34	38	52	-9.3	36.8	-2.9
ELECTRICAL	99	68	39	104	82	73	-3.7	-11.0	-5.0
ENGINEERING SCIENCE	53	35	29	37	35	39	-8.0	11.4	-5.0
INDUSTRIAL	13	3	8	6	4	6	-21.0	50.0	-12.1
MECHANICAL	79	57	43	24	30	69	-17.6	130.0	-2.2
METALLURGICAL/MATERIALS	70	41	27	25	28	53	-16.7	89.3	-4.5
MINING	6	0	1	5	2	18	-19.7	800.0	20.1
NUCLEAR	14	4	5	4	10	6	-6.5	-40.0	-13.2
PETROLEUM	2	2	1	0	2	1	.0	-50.0	-10.9
ENGINEERING, N.E.C.	23	30	17	17	15	13	-8.2	-13.3	-9.1
PHYSICAL SCIENCES	2,465	2,011	2,105	2,104	1,914	2,059	-4.9	7.6	-3.0
ASTRONOMY	137	94	99	95	115	85	-3.4	-26.1	-7.6
CHEMISTRY	1,419	1,175	1,195	1,216	1,144	1,309	-1.2	14.4	-1.3
PHYSICS	907	740	800	778	653	661	-6.4	1.2	-5.1
PHYSICAL SCIENCES, N.E.C.	2	2	11	15	2	4	.0	100.0	12.2
ENVIRONMENTAL SCIENCES	270	205	206	213	214	256	-4.5	19.6	-.9
ATMOSPHERIC SCIENCES	41	15	26	24	15	20	-18.2	33.3	-11.3
GEOSCIENCES	157	138	124	132	132	137	-3.4	3.8	-2.2
OCEANOGRAPHY	56	41	44	48	60	89	1.4	48.3	8.0
ENVIRONMENTAL SCIENCES, N.E.C.	16	11	12	9	7	10	-15.2	42.9	-7.5
MATHEMATICAL/COMPUTER SCIENCES	94	107	100	70	102	117	1.6	14.7	3.7
COMPUTER SCIENCE	47	25	30	18	34	37	-6.3	8.8	-3.9
MATHEMATICS AND APPLIED MATHEMATICS	41	69	60	46	61	61	8.3	.0	6.8
STATISTICS	6	13	10	6	7	19	3.1	171.4	21.2
LIFE SCIENCES	9,294	8,576	8,454	9,005	8,939	9,782	-.8	9.4	.9
AGRICULTURAL SCIENCES	209	141	146	171	163	217	-4.9	33.1	.6
BIOLOGICAL SCIENCES	4,639	4,973	5,007	5,328	5,359	5,820	2.9	8.6	3.9
ANATOMY	159	199	198	191	210	219	5.7	4.3	5.5
BIOCHEMISTRY	925	1,032	989	1,016	1,058	1,130	2.7	6.8	3.4
BIOLOGY	550	726	734	633	668	725	4.0	8.5	4.7
BIOMETRY/EPIDEMIOLOGY	47	54	62	46	39	34	-3.7	-12.8	-5.3
BIOPHYSICS	142	83	100	86	78	123	-11.3	57.7	-2.4
BOTANY	126	111	158	165	202	269	9.9	33.2	13.5
CELL BIOLOGY	228	255	285	372	357	461	9.4	29.1	12.5
ECOLOGY	16	15	16	36	26	35	10.2	34.6	13.9
ENTOMOLOGY/PARASITOLOGY	81	76	92	104	89	82	1.9	-7.9	.2
GENETICS	169	174	188	218	238	244	7.1	2.5	6.3
MICROBIOLOGY	688	648	653	696	705	728	.5	3.3	.9
NUTRITION	121	127	76	114	101	101	-3.5	.0	-3.0
PATHOLOGY	334	324	359	347	379	415	2.6	9.5	3.7
PHARMACOLOGY	395	437	403	507	481	493	4.0	2.5	3.8
PHYSIOLOGY	460	505	488	574	504	548	1.8	8.7	3.0
ZOOLOGY	155	166	167	169	175	170	2.5	-2.9	1.6
BIOSCIENCES, N.E.C.	43	41	39	54	49	43	2.6	-12.2	.0
HEALTH SCIENCES	4,446	3,462	3,301	3,506	3,417	3,745	-5.1	9.6	-2.8
ANESTHESIOLOGY	56	49	33	46	38	47	-7.5	23.7	-2.9
CANCER/ONCOLOGY	97	78	104	97	64	125	-8.0	95.3	4.3
CARDIOLOGY	410	237	274	247	284	262	-7.1	-7.7	-7.2
DENTISTRY	248	75	70	97	195	132	-4.7	-32.3	-10.0
ENDOCRINOLOGY	141	89	106	115	90	114	-8.6	26.7	-3.5
GASTROENTEROLOGY	165	76	107	91	90	132	-11.4	46.7	-3.7
HEMATOLOGY	201	135	125	129	115	134	-10.6	16.5	-6.5
NEUROLOGY	219	203	223	213	190	215	-2.8	13.2	-.3
NURSING	0	7	9	8	0	6	**	**	**
OBSTETRICS/GYNECOLOGY	104	78	74	51	55	62	-12.0	12.7	-8.3
OPHTHALMOLOGY	132	120	89	107	100	104	-5.4	4.0	-3.9
OTORHINOLARYNGOLOGY	21	25	31	22	5	11	-25.0	120.0	-10.2
PEDIATRICS	382	418	358	478	429	433	2.3	.9	2.1
PHARMACEUTICAL SCIENCES	107	1[illegible]	62	93	87	110	-4.1	26.4	.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	103	88	134	103	121	137	3.3	13.2	4.9
PSYCHIATRY	300	265	265	262	245	220	-4.0	-10.2	-5.0
PULMONARY DISEASE	191	122	120	112	111	127	-10.3	14.4	-6.6
RADIOLOGY	121	91	104	89	99	128	-3.9	29.3	.9
SPEECH PATHOLOGY/AUDIOLOGY	30	35	17	16	8	16	-23.2	100.0	-9.9
SURGERY	307	184	183	165	180	221	-10.1	22.8	-5.3
VETERINARY SCIENCES	58	16	42	22	41	45	-6.7	9.8	-4.1
CLINICAL MEDICINE, N.E.C.	1,000	892	707	864	795	887	-4.5	11.6	-2.0
HEALTH RELATED, N.E.C.	53	69	62	79	75	77	7.2	2.7	6.4
PSYCHOLOGY	360	420	445	417	455	375	4.8	-17.6	.7
SOCIAL SCIENCES	261	299	293	209	186	243	-6.6	30.6	-1.2
AGRICULTURAL ECONOMICS	24	2	6	5	4	20	-30.1	400.0	-3.0
ANTHROPOLOGY	46	34	37	26	31	51	-7.6	64.5	1.7
ECONOMICS (EXCEPT AGRICULTURAL)	29	51	94	19	4	9	-32.7	125.0	-17.7
GEOGRAPHY	2	2	4	7	1	0	-12.9	-100.0	-100.0
HISTORY AND PHILOSOPHY OF SCIENCE	15	7	7	13	8	11	-11.8	37.5	-5.0
LINGUISTICS	15	10	22	20	21	22	7.0	4.8	6.6
POLITICAL SCIENCE	21	25	19	22	26	27	4.4	3.8	4.3
SOCIOLOGY	87	106	84	79	72	86	-3.7	19.4	-.2
SOCIOLOGY/ANTHROPOLOGY	0	4	3	0	1	0	**	-100.0	**
SOCIAL SCIENCES, N.E.C.	22	58	17	18	18	17	-3.9	-5.6	-4.2

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-44. — FOREIGN SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-83 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1983	1977-82	1982-83	1977-83
TOTAL, ALL FIELDS	6,151	6,054	6,506	7,297	7,235	7,542	3.3	4.2	3.5
ENGINEERING	653	653	676	709	657	693	.1	5.5	1.0
AEROSPACE	28	23	14	6	19	24	-7.5	26.3	-2.5
AGRICULTURAL	6	5	5	5	3	1	-12.9	-66.7	-25.8
BIOMEDICAL	14	10	11	14	6	8	-15.6	33.3	-8.9
CHEMICAL	134	127	137	128	133	143	.5	7.5	1.6
CIVIL	94	70	65	73	70	79	-5.7	12.9	-2.9
ELECTRICAL	72	74	82	87	94	107	5.5	13.8	6.8
ENGINEERING SCIENCE	38	39	50	50	41	32	1.5	-22.0	-2.8
INDUSTRIAL	7	5	8	7	5	8	-6.5	60.0	2.3
MECHANICAL	82	86	94	106	100	113	4.0	13.0	5.5
METALLURGICAL/MATERIALS	139	168	145	168	138	151	-.1	9.4	1.4
MINING	8	5	2	11	8	1	.0	-87.5	-29.3
NUCLEAR	7	16	17	22	8	9	2.7	12.5	4.3
PETROLEUM	3	4	5	2	2	0	-7.8	-100.0	-100.0
ENGINEERING, N.E.C.	29	21	41	30	30	17	3.7	-43.3	-6.2
PHYSICAL SCIENCES	1,732	2,014	2,159	2,358	2,367	2,385	6.4	.8	5.5
ASTRONOMY	31	38	42	37	33	26	1.3	-21.2	-2.9
CHEMISTRY	1,239	1,429	1,515	1,654	1,661	1,670	6.0	.5	5.1
PHYSICS	462	547	598	667	673	689	7.8	2.4	6.9
PHYSICAL SCIENCES, N.E.C.	0	0	4	0	0	0	**	**	**
ENVIRONMENTAL SCIENCES	105	110	102	126	121	158	2.9	30.6	7.0
ATMOSPHERIC SCIENCES	7	16	17	22	17	21	19.4	23.5	20.1
GEOSCIENCES	85	71	70	81	84	100	-.2	19.0	2.7
OCEANOGRAPHY	8	13	13	19	18	31	17.6	72.2	25.3
ENVIRONMENTAL SCIENCES, N.E.C.	5	0	2	4	2	6	-16.7	200.0	3.1
MATHEMATICAL/COMPUTER SCIENCES	51	93	105	77	138	135	22.0	-2.2	17.6
COMPUTER SCIENCE	12	13	13	16	12	45	.0	275.0	24.6
MATHEMATICS AND APPLIED MATHEMATICS	29	70	81	56	119	76	32.6	-36.1	17.4
STATISTICS	10	10	11	5	7	14	-6.9	100.0	5.8
LIFE SCIENCES	3,474	3,049	3 289	3,850	3,786	3,993	1.7	5.5	2.3
AGRICULTURAL SCIENCES	84	74	93	113	116	81	6.7	-30.2	-.6
BIOLOGICAL SCIENCES	1,977	1,902	2,099	2,378	2,397	2,584	3.9	7.8	4.6
ANATOMY	48	45	39	57	51	78	1.2	52.9	8.4
BIOCHEMISTRY	521	530	610	708	626	656	3.7	4.8	3.9
BIOLOGY	282	239	255	237	274	273	-.6	-.4	-.5
BIOMETRY/EPIDEMIOLOGY	18	14	10	18	14	20	-4.9	42.9	1.8
BIOPHYSICS	77	18	51	69	51	61	-7.9	19.6	-3.8
BOTANY	62	52	62	75	96	100	9.1	4.2	8.3
CELL BIOLOGY	86	97	125	160	159	159	13.1	.0	10.8
ECOLOGY	2	3	6	8	2	4	.0	100.0	12.2
ENTOMOLOGY/PARASITOLOGY	38	28	27	29	30	30	-4.6	.0	-3.9
GENETICS	47	65	70	80	76	100	10.1	31.6	13.4
MICROBIOLOGY	218	213	220	271	309	289	7.2	-6.5	4.8
NUTRITION	51	43	53	57	37	50	-6.2	35.1	-.3
PATHOLOGY	98	105	118	121	161	169	10.4	5.0	9.5
PHARMACOLOGY	227	200	221	248	296	308	5.5	4.1	5.2
PHYSIOLOGY	155	176	180	184	169	225	1.7	33.1	6.4
ZOOLOGY	34	49	26	38	28	33	-3.8	17.9	-.5
BIOSCIENCES, N.E.C.	13	25	26	18	18	29	6.7	61.1	14.3
HEALTH SCIENCES	1,413	1,073	1,097	1,359	1,273	1,328	-2.1	4.3	-1.0
ANESTHESIOLOGY	19	13	21	20	20	12	1.0	-40.0	-7.4
CANCER/ONCOLOGY	39	36	29	32	36	32	-1.6	-11.1	-3.2
CARDIOLOGY	92	61	60	86	89	74	-.7	-16.9	-3.6
DENTISTRY	60	27	9	42	51	65	-3.2	27.5	1.3
ENDOCRINOLOGY	54	19	30	49	49	59	-1.9	20.4	1.5
GASTROENTEROLOGY	33	27	16	22	22	16	-7.8	-27.3	-11.4
HEMATOLOGY	47	16	23	24	22	20	-14.1	-9.1	-13.3
NEUROLOGY	39	62	60	74	64	86	10.4	34.4	14.1
NURSING	0	0	0	0	0	0	**	**	**
OBSTETRICS/GYNECOLOGY	63	65	48	62	46	54	-6.1	17.4	-2.5
OPHTHALMOLOGY	54	18	33	37	39	33	-6.3	-15.4	-7.9
OTORHINOLARYNGOLOGY	8	9	13	16	12	12	8.4	.0	7.0
PEDIATRICS	132	93	75	109	101	112	-5.2	10.9	-2.7
PHARMACEUTICAL SCIENCES	130	125	171	150	151	131	3.0	-13.2	.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	10	24	27	32	22	24	17.1	9.1	15.7
PSYCHIATRY	29	27	30	27	37	44	5.0	18.9	7.2
PULMONARY DISEASE	37	21	7	10	20	22	-11.6	10.0	-8.3
RADIOLOGY	69	47	52	66	65	59	-1.2	-9.2	-2.6
SPEECH PATHOLOGY/AUDIOLOGY	2	1	1	3	2	2	.0	.0	.0
SURGERY	154	97	124	140	143	169	-1.5	18.2	1.9
VETERINARY SCIENCES	17	6	10	9	8	5	-14.0	-37.5	-18.5
CLINICAL MEDICINE, N.E.C.	315	253	218	315	257	273	-4.0	6.2	-2.4
HEALTH RELATED, N.E.C.	10	26	40	34	17	24	11.2	41.2	15.7
PSYCHOLOGY	39	34	30	54	65	61	10.4	-6.2	7.7
SOCIAL SCIENCES	97	101	145	123	101	117	.8	15.8	3.2
AGRICULTURAL ECONOMICS	4	4	2	1	6	8	8.4	33.3	12.2
ANTHROPOLOGY	7	7	3	4	3	9	-15.6	200.0	4.3
ECONOMICS (EXCEPT AGRICULTURAL)	36	48	52	11	9	11	-24.2	22.2	-17.9
GEOGRAPHY	7	2	11	16	4	7	-10.6	75.0	.0
HISTORY AND PHILOSOPHY OF SCIENCE	7	4	8	8	6	8	-3.0	33.3	2.3
LINGUISTICS	14	20	32	27	26	29	13.2	11.5	12.9
POLITICAL SCIENCE	6	4	11	24	18	16	24.6	-11.1	17.8
SOCIOLOGY	9	9	15	11	17	16	13.6	-5.9	10.1
SOCIOLOGY/ANTHROPOLOGY	1	0	0	0	1	1	.0	.0	.0
SOCIAL SCIENCES, N.E.C.	6	2	11	21	11	12	12.9	9.1	12.2

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-46. — NON-FACULTY SCIENTISTS AND ENGINEERS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	2,679	3,267	3,556	4,026	4,888	14.5	21.4
ENGINEERING	273	423	500	670	630	34.9	-6.0
AEROSPACE	18	31	8	26	24	13.0	-7.7
AGRICULTURAL	9	5	3	3	4	-30.7	34.3
BIOMEDICAL	6	4	4	10	11	18.4	10.0
CHEMICAL	37	51	75	96	90	37.4	-47.9
CIVIL	25	38	30	114	86	65.8	-24.6
ELECTRICAL	65	77	79	74	126	4.4	70.3
ENGINEERING SCIENCE	30	26	38	33	36	3.2	9.1
INDUSTRIAL	3	14	4	27	10	108.0	-63.0
MECHANICAL	45	68	113	149	128	49.0	-14.1
METALLURGICAL/MATERIALS	21	80	96	89	94	61.8	5.6
MINING	9	0	0	9	3	.0	-66.7
NUCLEAR	2	22	21	19	29	111.8	52.6
PETROLEUM	1	0	0	0	4	-100.0	**
ENGINEERING, N.E.C.	2	7	29	21	25	119.0	19.0
PHYSICAL SCIENCES	463	474	631	804	756	20.2	-6.0
ASTRONOMY	53	40	66	71	67	10.2	-5.6
CHEMISTRY	215	253	300	346	305	17.2	-11.8
PHYSICS	195	181	265	386	383	25.6	-.8
PHYSICAL SCIENCES, N.E.C.	0	0	0	1	1	**	.0
ENVIRONMENTAL SCIENCES	104	154	143	239	297	32.0	24.3
ATMOSPHERIC SCIENCES	30	23	32	29	47	-1.1	62.1
GEOSCIENCES	50	82	66	100	126	26.0	26.0
OCEANOGRAPHY	20	38	33	99	111	70.4	12.1
ENVIRONMENTAL SCIENCES, N.E.C.	4	11	12	11	13	40.1	18.2
MATHEMATICAL/COMPUTER SCIENCES	113	135	169	129	183	4.5	41.9
COMPUTER SCIENCE	44	51	57	47	58	2.2	23.4
MATHEMATICS AND APPLIED MATHEMATICS	60	75	83	62	119	1.1	91.9
STATISTICS	9	9	29	20	6	30.5	-70.0
LIFE SCIENCES	1,484	1,831	1,736	1,898	2,660	8.5	40.1
AGRICULTURAL SCIENCES	54	70	68	75	165	11.6	120.0
BIOLOGICAL SCIENCES	933	1,103	1,071	1,282	1,565	11.2	22.1
ANATOMY	21	31	66	36	60	19.7	66.7
BIOCHEMISTRY	201	234	200	218	283	2.7	29.8
BIOLOGY	149	234	243	295	306	25.6	3.7
BIOMETRY/EPIDEMIOLOGY	14	16	21	15	23	2.3	53.3
BIOPHYSICS	21	33	53	54	24	37.0	-55.6
BOTANY	16	41	32	76	72	68.1	-5.3
CELL BIOLOGY	25	35	40	41	41	17.9	.0
ECOLOGY	12	14	10	5	9	-25.3	80.0
ENTOMOLOGY/PARASITOLOGY	33	43	35	47	61	12.5	29.8
GENETICS	19	32	21	20	40	1.7	100.0
MICROBIOLOGY	59	63	54	99	146	18.8	47.5
NUTRITION	60	78	26	38	49	-14.1	28.9
PATHOLOGY	68	46	42	43	75	-14.2	74.4
PHARMACOLOGY	116	98	69	88	158	-8.8	79.5
PHYSIOLOGY	88	89	119	160	157	22.1	-1.9
ZOOLOGY	23	16	22	29	41	8.0	41.4
BIOSCIENCES, N.E.C.	8	0	18	18	20	31.0	11.1
HEALTH SCIENCES	497	658	597	541	930	2.9	71.9
ANESTHESIOLOGY	15	7	4	1	7	-59.5	600.0
CANCER/ONCOLOGY	20	23	13	27	48	10.5	77.8
CARDIOLOGY	31	16	29	36	57	5.1	58.3
DENTISTRY	0	6	3	2	81	**	3950.0
ENDOCRINOLOGY	7	5	11	6	6	-5.0	.0
GASTROENTEROLOGY	7	9	8	8	12	4.6	50.0
HEMATOLOGY	5	22	4	1	4	-41.5	300.0
NEUROLOGY	29	36	42	34	45	5.4	32.4
NURSING	2	0	2	8	7	58.7	-12.5
OBSTETRICS/GYNECOLOGY	9	3	3	9	12	.0	33.3
OPHTHALMOLOGY	12	22	7	13	10	2.7	-23.1
OTORHINOLARYNGOLOGY	11	19	9	5	3	-23.1	-40.0
PEDIATRICS	8	75	35	42	55	73.8	31.0
PHARMACEUTICAL SCIENCES	34	25	31	24	57	-11.0	137.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	18	22	33	32	64	21.1	100.0
PSYCHIATRY	107	123	141	142	166	9.9	16.9
PULMONARY DISEASE	2	12	8	9	6	65.1	-33.3
RADIOLOGY	33	45	59	30	72	-3.1	140.0
SPEECH PATHOLOGY/AUDIOLOGY	1	10	15	10	23	115.4	130.0
SURGERY	29	43	35	50	51	19.9	2.0
VETERINARY SCIENCES	7	11	1	3	27	-24.6	800.0
CLINICAL MEDICINE, N.E.C.	103	120	99	48	108	-22.5	125.0
HEALTH RELATED, N.E.C.	7	4	5	1	9	-47.7	800.0
PSYCHOLOGY	63	103	155	150	153	33.5	2.0
SOCIAL SCIENCES	179	147	222	136	209	-8.8	53.7
AGRICULTURAL ECONOMICS	8	15	22	18	29	31.0	61.1
ANTHROPOLOGY	19	23	20	19	38	.0	100.0
ECONOMICS (EXCEPT AGRICULTURAL)	60	35	73	49	42	-6.5	-14.3
GEOGRAPHY	1	4	6	3	9	44.2	200.0
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	0	2	0	26.0	-100.0
LINGUISTICS	6	0	9	3	2	-20.6	-33.3
POLITICAL SCIENCE	29	16	36	6	25	-40.9	316.7
SOCIOLOGY	44	37	48	22	19	-20.6	-13.6
SOCIOLOGY/ANTHROPOLOGY	0	1	0	0	1	**	**
SOCIAL SCIENCES, N.E.C.	11	15	8	14	44	8.4	214.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-46. — MALE NON-FACULTY SCIENTISTS AND ENGINEERS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	2,069	2,573	2,805	3,179	3,905	15.4	22.8
ENGINEERING	260	398	468	638	595	34.9	-6.7
AEROSPACE	17	29	8	25	24	13.7	-4.0
AGRICULTURAL	9	5	2	2	4	-39.4	100.0
BIOMEDICAL	6	2	3	10	9	18.6	-10.0
CHEMICAL	35	48	70	89	43	36.5	-51.7
CIVIL	23	35	24	110	83	68.5	-24.5
ELECTRICAL	65	74	74	70	119	2.5	70.0
ENGINEERING SCIENCE	28	23	35	30	32	2.3	6.7
INDUSTRIAL	3	12	2	27	9	108.0	-66.7
MECHANICAL	43	65	111	144	125	49.6	-13.2
METALLURGICAL/MATERIALS	18	76	90	85	89	67.8	4.7
MINING	8	0	0	9	3	4.0	-66.7
NUCLEAR	2	22	20	18	27	108.0	50.0
PETROLEUM	1	0	0	0	4	-100.0	**
ENGINEERING, N.E.C.	2	7	29	19	24	111.8	26.3
PHYSICAL SCIENCES	411	419	541	687	678	18.7	-1.3
ASTRONOMY	51	37	61	65	62	8.4	-4.6
CHEMISTRY	175	209	227	254	255	13.2	.4
PHYSICS	185	173	253	367	361	25.7	-1.6
PHYSICAL SCIENCES, N.E.C.	0	0	0	1	0	**	-100.0
ENVIRONMENTAL SCIENCES	97	135	130	218	277	31.0	27.1
ATMOSPHERIC SCIENCES	28	21	32	28	46	.0	64.3
GEOSCIENCES	48	75	60	93	115	24.7	23.7
OCEANOGRAPHY	17	30	28	87	104	72.3	19.5
ENVIRONMENTAL SCIENCES, N.E.C.	4	9	10	10	12	35.7	20.0
MATHEMATICAL/COMPUTER SCIENCES	102	123	163	118	169	5.0	43.2
COMPUTER SCIENCE	42	45	54	44	56	1.6	27.3
MATHEMATICS AND APPLIED MATHEMATICS	52	69	80	55	109	1.9	98.2
STATISTICS	8	9	29	19	4	33.4	-78.9
LIFE SCIENCES	1,037	1,331	1,223	1,332	1,937	8.7	45.4
AGRICULTURAL SCIENCES	49	59	54	61	154	7.6	152.5
BIOLOGICAL SCIENCES	622	760	757	914	1,112	13.6	21.9
ANATOMY	11	20	43	27	41	34.9	51.9
BIOCHEMISTRY	129	166	130	151	198	5.4	31.1
BIOLOGY	79	143	152	194	191	34.9	-1.5
BIOMETRY/EPIDEMIOLOGY	10	12	16	7	20	-11.2	185.7
BIOPHYSICS	13	25	42	44	18	50.1	-59.1
BOTANY	13	34	23	57	65	63.7	14.0
CELL BIOLOGY	19	26	31	26	23	11.0	-11.5
ECOLOGY	10	13	10	2	6	-41.5	200.0
ENTOMOLOGY/PARASITOLOGY	31	36	28	45	52	13.2	15.6
GENETICS	17	25	11	9	28	-19.1	211.1
MICROBIOLOGY	36	39	39	67	101	23.0	50.7
NUTRITION	39	32	21	26	36	-12.6	38.5
PATHOLOGY	53	32	34	33	51	-14.6	54.5
PHARMACOLOGY	86	67	60	61	115	-10.8	88.5
PHYSIOLOGY	99	59	91	124	121	28.1	-2.4
ZOOLOGY	12	11	12	23	34	24.2	47.8
BIOSCIENCES, N.E.C.	5	0	18	16	12	47.4	-25.0
HEALTH SCIENCES	364	512	412	359	671	-.6	86.9
ANESTHESIOLOGY	15	6	4	1	5	-59.5	400.0
CANCER/ONCOLOGY	14	19	13	16	37	4.6	131.3
CARDIOLOGY	18	13	23	28	44	15.9	57.1
DENTISTRY	0	6	3	2	78	**	3800.0
ENDOCRINOLOGY	3	5	11	5	4	35.7	-20.0
GASTROENTEROLOGY	6	8	6	5	5	-5.9	.0
HEMATOLOGY	1	14	1	1	1	.0	.0
NEUROLOGY	23	32	36	28	34	6.8	21.4
NURSING	1	0	2	1	4	.0	300.0
OBSTETRICS/GYNECOLOGY	8	3	2	2	9	-37.0	350.0
OPHTHALMOLOGY	11	21	4	8	5	-10.1	-37.5
OTORHINOLARYNGOLOGY	10	18	7	2	1	-41.5	-50.0
PEDIATRICS	4	64	24	26	44	86.6	69.2
PHARMACEUTICAL SCIENCES	31	21	24	18	46	-16.6	155.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	10	16	28	21	34	28.1	61.9
PSYCHIATRY	72	75	76	81	96	4.0	18.5
PULMONARY DISEASE	2	10	8	8	6	58.7	-25.0
RADIOLOGY	23	30	35	20	59	-4.6	195.0
SPEECH PATHOLOGY/AUDIOLOGY	1	7	11	7	18	91.3	157.1
SURGERY	25	34	25	44	39	20.7	-11.4
VETERINARY SCIENCES	4	10	0	2	16	-20.6	700.0
CLINICAL MEDICINE, N.E.C.	79	96	66	33	79	-25.2	139.4
HEALTH RELATED, N.E.C.	6	4	3	0	7	-100.0	**
PSYCHOLOGY	30	57	98	89	100	43.7	12.4
SOCIAL SCIENCES	132	110	182	97	149	-9.8	53.6
AGRICULTURAL ECONOMICS	8	14	20	15	26	23.3	73.3
ANTHROPOLOGY	11	13	13	7	25	-14.0	257.1
ECONOMICS (EXCEPT AGRICULTURAL)	50	28	70	42	21	-5.6	-50.0
GEOGRAPHY	1	4	5	1	7	.0	600.0
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	0	2	0	26.0	-100.0
LINGUISTICS	4	0	7	0	1	-100.0	**
POLITICAL SCIENCE	27	16	25	5	24	-43.0	380.0
SOCIOLOGY	23	24	36	14	10	-15.3	-28.6
SOCIOLOGY/ANTHROPOLOGY	0	1	0	0	0	**	**
SOCIAL SCIENCES, N.E.C.	7	9	6	11	35	16.3	218.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-47. — FEMALE NON-FACULTY SCIENTISTS AND ENGINEERS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-83

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL FIELDS	610	694	751	847	983	11.6	16.1
ENGINEERING	13	25	32	32	35	35.0	9.4
AEROSPACE	1	2	0	1	0	.0	-100.0
AGRICULTURAL	0	0	1	1	0	**	-100.0
BIOMEDICAL	0	2	1	0	2	**	**
CHEMICAL	2	3	5	7	7	51.8	.0
CIVIL	2	3	6	4	3	26.0	-25.0
ELECTRICAL	0	3	5	4	7	**	75.0
ENGINEERING SCIENCE	2	3	3	3	4	14.5	33.3
INDUSTRIAL	0	2	2	0	1	**	**
MECHANICAL	2	3	2	5	3	35.7	-40.0
METALLURGICAL/MATERIALS	3	4	6	4	5	10.1	25.0
MINING	1	0	0	0	0	-100.0	**
NUCLEAR	0	0	1	1	2	**	100.0
PETROLEUM	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	0	0	0	2	1	**	-50.0
PHYSICAL SCIENCES	52	55	90	117	78	31.0	-33.3
ASTRONOMY	2	3	5	6	5	44.2	-16.7
CHEMISTRY	40	44	73	92	50	32.0	-45.7
PHYSICS	10	8	12	19	22	23.9	15.8
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	1	**	**
ENVIRONMENTAL SCIENCES	7	19	13	21	20	44.2	-4.8
ATMOSPHERIC SCIENCES	2	2	0	1	1	-20.6	.0
GEOSCIENCES	2	7	6	7	11	51.8	57.1
OCEANOGRAPHY	3	8	5	12	7	58.7	-41.7
ENVIRONMENTAL SCIENCES, N.E.C.	0	2	2	1	1	**	.0
MATHEMATICAL/COMPUTER SCIENCES	11	12	6	11	14	.0	27.3
COMPUTER SCIENCE	2	6	3	3	2	14.5	-33.3
MATHEMATICS AND APPLIED MATHEMATICS	8	6	3	7	10	-4.4	42.9
STATISTICS	1	0	0	1	2	.0	100.0
LIFE SCIENCES	447	500	513	566	723	8.2	27.7
AGRICULTURAL SCIENCES	9	11	14	14	11	40.9	-21.4
BIOLOGICAL SCIENCES	311	343	314	370	453	6.0	22.4
ANATOMY	10	11	23	9	19	-3.5	111.1
BIOCHEMISTRY	72	68	70	67	85	-2.4	26.9
BIOLOGY	70	91	91	101	115	13.0	13.9
BIOMETRY/EPIDEMIOLOGY	4	4	5	8	3	26.0	-62.5
BIOPHYSICS	8	8	11	10	6	7.7	-40.0
BOTANY	3	7	9	19	7	85.0	-63.2
CELL BIOLOGY	6	9	9	15	18	35.7	20.0
ECOLOGY	2	1	2	3	3	14.5	.0
ENTOMOLOGY/PARASITOLOGY	2	7	7	2	9	.0	350.0
GENETICS	2	7	10	11	12	76.5	9.1
MICROBIOLOGY	23	24	19	32	45	11.6	40.6
NUTRITION	21	26	5	12	13	-17.0	8.3
PATHOLOGY	15	14	8	10	24	-12.6	140.0
PHARMACOLOGY	30	31	9	27	43	-3.5	59.3
PHYSIOLOGY	29	30	26	36	36	7.5	.0
ZOOLOGY	11	9	10	6	7	-18.3	16.7
BIOSCIENCES, N.E.C.	3	0	0	2	8	-12.6	300.0
HEALTH SCIENCES	131	146	185	182	259	11.6	42.3
ANESTHESIOLOGY	0	1	0	0	2	**	**
CANCER/ONCOLOGY	6	4	0	11	11	22.4	.0
CARDIOLOGY	13	3	6	8	13	-14.9	62.5
DENTISTRY	0	0	0	0	3	**	**
ENDOCRINOLOGY	5	0	0	1	2	-41.5	100.0
GASTROENTEROLOGY	1	1	2	3	7	44.2	133.3
HEMATOLOGY	4	8	3	0	3	-100.0	**
NEUROLOGY	6	4	6	6	11	.0	83.3
NURSING	1	0	0	7	3	91.3	-57.1
OBSTETRICS/GYNECOLOGY	1	0	1	7	3	91.3	-57.1
OPHTHALMOLOGY	1	1	3	5	5	71.0	.0
OTORHINOLARYNGOLOGY	1	1	2	3	2	44.2	-33.3
PEDIATRICS	4	4	11	16	11	58.7	-31.3
PHARMACEUTICAL SCIENCES	3	4	7	6	11	26.0	83.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	8	6	5	11	30	11.2	172.7
PSYCHIATRY	35	48	65	61	70	20.3	14.8
PULMONARY DISEASE	0	2	0	1	0	**	-100.0
RADIOLOGY	10	15	24	10	13	.0	30.0
SPEECH PATHOLOGY/AUDIOLOGY	0	3	4	3	5	**	66.7
SURGERY	4	9	10	6	12	14.5	100.0
VETERINARY SCIENCES	3	1	1	1	11	-30.7	1000.0
CLINICAL MEDICINE, N.E.C.	24	24	33	15	29	-14.5	93.3
HEALTH RELATED, N.E.C.	1	0	2	1	2	.0	100.0
PSYCHOLOGY	33	46	57	41	53	22.7	-13.1
SOCIAL SCIENCES	47	37	40	39	60	-6.0	53.8
AGRICULTURAL ECONOMICS	0	1	2	3	3	**	.0
ANTHROPOLOGY	8	10	7	12	13	14.5	8.3
ECONOMICS (EXCEPT AGRICULTURAL)	10	7	3	7	21	-11.2	200.0
GEOGRAPHY	0	0	1	2	2	**	.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0
LINGUISTICS	2	0	2	3	1	14.5	-66.7
POLITICAL SCIENCE	2	0	11	1	1	-20.6	.0
SOCIOLOGY	21	13	12	8	9	-27.2	12.5
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	1	**	**
SOCIAL SCIENCES, N.E.C.	4	6	2	3	9	-9.1	200.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-48. — NON-FACULTY SCIENTISTS AND ENGINEERS IN DOCTORATE-GRANTING INSTITUTIONS, BY GEOGRAPHIC DISTRIBUTION: 1979-83

DIVISION AND STATE	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL INSTITUTIONS	2,679	3,267	3,556	4,026	4,888	14.5	21.4
NEW ENGLAND	440	544	689	660	704	14.5	6.7
CONNECTICUT	57	101	116	97	146	19.4	50.5
MAINE	5	5	0	0	2	-100.0	**
MASSACHUSETTS	370	412	531	527	511	12.5	-3.0
NEW HAMPSHIRE	0	19	3	7	10	**	42.9
RHODE ISLAND	1	3	34	24	23	188.4	-4.2
VERMONT	7	4	5	5	12	-10.6	140.0
MIDDLE ATLANTIC	466	553	661	673	831	13.0	23.5
NEW JERSEY	59	52	97	99	101	18.8	2.0
NEW YORK	264	296	367	349	460	11.8	24.7
PENNSYLVANIA	143	205	197	205	270	12.8	31.7
EAST NORTH CENTRAL	419	447	396	487	692	5.1	42.1
ILLINOIS	112	117	80	98	125	-4.4	27.6
INDIANA	63	38	37	58	133	-2.7	129.3
MICHIGAN	80	94	81	97	115	6.6	18.6
OHIO	64	54	55	68	125	2.0	83.8
WISCONSIN	100	144	143	166	194	18.4	16.9
WEST NORTH CENTRAL	90	131	161	199	271	30.3	36.2
IOWA	11	17	16	26	39	33.2	50.0
KANSAS	1	6	8	13	40	135.1	207.7
MINNESOTA	33	35	65	89	76	39.2	-14.6
MISSOURI	39	58	54	55	80	12.1	45.5
NEBRASKA	4	14	12	9	26	31.0	188.9
NORTH DAKOTA	2	1	5	6	7	44.2	16.7
SOUTH DAKOTA	0	0	1	1	3	**	200.0
SOUTH ATLANTIC	237	364	351	419	627	20.9	49.6
DELAWARE	9	11	4	6	49	-26.3	716.7
DISTRICT OF COLUMBIA	27	26	47	33	30	16.3	-9.1
FLORIDA	39	76	37	50	112	8.6	124.0
GEORGIA	22	32	25	39	65	21.0	66.7
MARYLAND	20	79	80	84	91	61.3	8.3
NORTH CAROLINA	86	97	120	158	159	22.5	.6
SOUTH CAROLINA	8	13	8	11	39	11.2	254.5
VIRGINIA	24	23	29	37	65	15.5	75.7
WEST VIRGINIA	2	7	1	1	17	-20.6	1600.0
EAST SOUTH CENTRAL	71	67	58	88	103	7.4	17.0
ALABAMA	7	8	17	27	32	56.8	18.5
KENTUCKY	44	32	16	29	22	-13.0	-24.1
MISSISSIPPI	4	13	6	4	18	.0	350.0
TENNESSEE	16	14	19	28	31	20.5	10.7
WEST SOUTH CENTRAL	103	243	230	246	269	33.7	9.3
ARKANSAS	1	2	1	2	13	26.0	550.0
LOUISIANA	12	14	45	30	14	35.7	-53.3
OKLAHOMA	6	7	18	33	27	76.5	-18.2
TEXAS	84	220	166	181	215	29.2	18.8
MOUNTAIN	125	101	136	200	211	17.0	5.5
ARIZONA	33	27	39	80	51	34.3	-36.3
COLORADO	23	25	65	58	72	36.1	24.1
IDAHO	20	1	5	8	18	-26.3	125.0
MONTANA	3	5	3	9	1	44.2	-88.9
NEVADA	1	1	1	1	2	.0	100.0
NEW MEXICO	11	5	6	22	25	26.0	13.6
UTAH	34	37	17	17	40	-20.6	135.3
WYOMING	0	0	0	5	2	**	-60.0
PACIFIC	727	817	874	1,054	1,179	13.2	11.9
ALASKA	0	0	0	0	1	**	**
CALIFORNIA	675	738	821	972	1,015	12.9	4.4
HAWAII	6	28	16	22	38	26.0	216.7
OREGON	18	27	12	21	30	5.3	42.9
WASHINGTON	28	24	25	49	95	20.5	93.9
OUTLYING AREAS	1	0	0	0	1	-100.0	**

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-1. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	45,960	51,754	52,618	49,431	51,672	52,186	55,288	2.1	5.9	2.7
ENGINEERING	3,860	4,719	5,110	4,941	6,106	6,416	6,744	8.8	5.1	8.3
AEROSPACE	28	22	5	7	7	8	32	-18.8	300.0	1.9
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	18	30	45	48	45	52	59	19.3	13.5	18.5
CHEMICAL	135	130	185	156	232	260	211	11.5	-18.8	6.6
CIVIL	695	912	936	928	1,214	992	900	6.1	-9.3	3.8
ELECTRICAL	715	1,050	971	1,087	1,293	1,435	1,668	12.3	16.2	12.9
ENGINEERING SCIENCE	39	117	165	163	212	290	300	39.7	3.4	33.8
INDUSTRIAL	662	788	600	674	838	862	908	4.5	5.3	4.6
MECHANICAL	445	590	697	733	705	700	822	7.8	17.4	9.2
METALLURGICAL/MATERIALS	43	69	100	71	78	94	109	13.9	16.0	14.2
MINING	11	7	6	7	18	25	26	14.7	4.0	13.1
NUCLEAR	12	19	4	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	1	12	3	6	13	**	116.7	**
ENGINEERING, N.E.C.	1,057	985	1,395	1,055	1,461	1,692	1,696	8.2	.2	7.0
PHYSICAL SCIENCES	1,805	2,039	1,776	1,559	1,602	1,720	1,747	-1.0	2.8	-.5
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	1,247	1,417	1,215	1,117	1,103	1,237	1,284	-.1	3.8	.4
PHYSICS	428	460	380	319	286	288	296	-6.4	2.8	-5.1
PHYSICAL SCIENCES, N.E.C.	130	162	181	123	213	175	167	5.1	-4.6	3.6
ENVIRONMENTAL SCIENCES	1,297	1,357	1,279	1,413	1,359	1,417	1,342	1.5	-5.3	.5
ATMOSPHERIC SCIENCES	0	10	12	19	9	12	12	**	.0	**
GEOSCIENCES	494	556	559	543	521	575	635	2.6	10.4	3.7
OCEANOGRAPHY	37	44	38	145	149	157	156	27.2	-.6	22.8
ENVIRONMENTAL SCIENCES, N.E.C.	766	747	670	706	680	673	539	-2.1	-19.9	-4.9
MATHEMATICAL/COMPUTER SCIENCES	4,001	4,051	4,085	3,929	5,207	6,677	7,892	8.9	18.2	10.2
COMPUTER SCIENCE	1,660	1,876	2,202	2,194	3,296	4,236	5,321	16.9	25.6	18.1
MATHEMATICS AND APPLIED MATHEMATICS	2,142	1,967	1,682	1,578	1,782	2,298	2,453	1.2	6.7	2.0
STATISTICS	199	208	201	157	129	143	118	-5.4	-17.5	-7.2
LIFE SCIENCES	10,695	12,128	12,365	11,844	12,216	12,186	12,604	2.2	3.4	2.4
AGRICULTURAL SCIENCES	553	573	775	675	753	737	775	4.9	5.2	4.9
BIOLOGICAL SCIENCES	5,970	6,399	5,922	5,214	4,996	4,433	4,535	-4.8	2.3	-3.9
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	143	117	110	62	39	34	40	-21.3	17.6	-16.6
BIOLOGY	5,089	5,285	4,865	4,210	4,051	3,527	3,568	-5.9	1.2	-4.9
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	97	44	83	56	41	42	45	-13.0	7.1	-10.4
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	39	47	110	51	53	43	45	-2.7	36.4	2.1
ENTOMOLOGY/PARASITOLOGY	8	0	0	0	0	0	0	0	0	0
GENETICS	51	52	48	52	50	50	49	-.3	-2.0	-.6
MICROBIOLOGY	212	279	185	200	181	138	125	-6.9	-9.4	-7.3
NUTRITION	123	221	244	272	234	256	299	13.0	16.8	13.5
PATHOLOGY	31	41	36	39	40	47	43	7.2	-8.5	4.8
PHARMACOLOGY	0	3	8	10	11	11	6	**	-45.5	**
PHYSIOLOGY	58	64	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	59	46	37	36	41	32	40	-9.7	25.0	-5.4
BIOSCIENCES, N.E.C.	68	300	196	226	255	263	275	25.3	4.6	22.1
HEALTH SCIENCES	4,172	5,126	5,668	5,955	6,447	7,016	7,294	9.0	4.0	8.3
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	21	33	56	31	**	-44.6	**
DENTISTRY	21	26	0	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	29	29	14	14	14	**	.0	**
NURSING	633	956	1,195	1,127	1,632	1,957	2,021	20.7	3.3	18.0
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	28	29	26	26	23	29	**	26.1	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	61	99	129	90	96	140	187	14.9	33.6	17.4
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	1,471	1,741	1,835	1,867	2,051	1,927	2,061	4.6	7.0	4.9
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	28	21	15	15	23	25	26	-1.9	4.0	-1.1
CLINICAL MEDICINE, N.E.C.	62	177	240	396	361	370	330	34.7	-10.8	27.0
HEALTH RELATED, N.E.C.	1,896	2,108	2,196	2,384	2,231	2,504	2,595	4.7	3.6	4.6
PSYCHOLOGY	9,379	10,570	11,813	11,252	11,639	11,016	12,039	2.7	9.3	3.6
SOCIAL SCIENCES	14,923	16,890	16,190	14,493	13,543	12,774	12,920	-2.6	1.1	-2.0
AGRICULTURAL ECONOMICS	17	21	23	42	27	44	58	17.2	31.8	19.2
ANTHROPOLOGY	416	540	432	399	313	260	245	-7.5	-5.8	-7.3
ECONOMICS (EXCEPT AGRICULTURAL)	937	948	844	901	937	1,083	1,147	2.4	5.9	2.9
GEOGRAPHY	717	577	462	481	451	461	433	-7.1	-6.1	-7.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	307	273	137	135	129	129	209	-13.5	62.0	-5.3
POLITICAL SCIENCE	6,226	7,308	7,153	6,765	6,790	6,128	5,894	-.3	-3.8	-.8
SOCIOLOGY	1,051	1,091	957	785	779	593	560	-9.1	-5.6	-8.6
SOCIOLOGY/ANTHROPOLOGY	132	132	98	111	89	91	168	-6.0	84.6	3.5
SOCIAL SCIENCES, N.E.C.	5,120	6,000	6,084	4,874	4,028	3,985	4,206	-4.1	5.5	-2.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-2. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	31,300	35,128	36,130	32,650	34,970	34,874	36,703	1.8	5.2	2.3
ENGINEERING	2,303	2,764	3,059	2,890	3,675	3,885	3,886	9.1	*	7.8
AEROSPACE	19	8	0	0	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	35	38	35	34	40	**	17.6	**
CHEMICAL	56	73	100	57	120	147	114	17.5	-22.4	10.7
CIVIL	567	753	772	740	936	752	663	4.8	-11.8	2.3
ELECTRICAL	294	512	438	552	670	799	733	17.1	-3.4	13.9
ENGINEERING SCIENCE	2	7	7	8	6	12	24	34.8	100.0	42.6
INDUSTRIAL	229	247	151	269	385	429	508	11.0	18.4	12.1
MECHANICAL	194	296	267	289	301	316	329	8.5	4.1	7.8
METALLURGICAL/MATERIALS	26	48	68	38	28	35	44	5.1	31.4	8.5
MINING	11	7	6	7	18	25	26	14.7	4.0	13.1
NUCLEAR	0	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	1	12	3	6	13	**	116.7	**
ENGINEERING, N.E.C.	905	813	1,214	880	1,173	1,370	1,390	7.2	1.5	6.3
PHYSICAL SCIENCES	1,333	1,526	1,290	1,184	1,254	1,328	1,393	-.1	4.9	.6
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	880	1,039	880	804	800	911	982	.6	7.8	1.6
PHYSICS	343	352	308	257	242	242	244	-5.6	.8	-4.7
PHYSICAL SCIENCES, N.E.C.	110	135	102	123	212	175	167	8.0	-4.6	6.1
ENVIRONMENTAL SCIENCES	1,254	1,275	1,187	1,304	1,247	1,322	1,241	.9	-6.1	-.1
ATMOSPHERIC SCIENCES	0	10	12	19	9	12	12	**	.0	**
GEOSCIENCES	491	556	559	543	521	575	635	2.7	10.4	3.7
OCEANOGRAPHY	37	44	38	145	149	157	156	27.2	-.6	22.8
ENVIRONMENTAL SCIENCES, N.E.C.	726	665	578	597	568	578	438	-3.7	-24.2	-7.0
MATHEMATICAL/COMPUTER SCIENCES	2,726	2,606	2,741	2,551	3,531	4,593	5,258	9.1	14.5	9.8
COMPUTER SCIENCE	696	769	1,141	1,064	1,841	2,354	2,891	22.5	22.8	22.6
MATHEMATICS AND APPLIED MATHEMATICS	1,975	1,787	1,567	1,453	1,646	2,186	2,325	1.7	6.4	2.4
STATISTICS	55	50	33	34	44	53	42	-.6	-20.8	-3.8
LIFE SCIENCES	8,246	9,316	9,814	9,073	9,195	8,817	9,205	1.1	4.4	1.6
AGRICULTURAL SCIENCES	522	522	752	651	701	673	714	4.3	6.1	4.6
BIOLOGICAL SCIENCES	4,854	5,180	4,729	4,152	4,065	3,490	3,700	-5.3	6.0	-3.8
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	53	52	57	17	0	0	0	-100.0	**	-100.0
BIOLOGY	4,317	4,519	4,030	3,507	3,520	2,981	3,113	-6.0	4.4	-4.6
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	95	39	74	49	33	32	35	-16.6	9.4	-13.3
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	39	47	57	13	13	8	21	-23.2	162.5	-8.5
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0	0	0
MICROBIOLOGY	123	140	116	127	104	78	75	-7.3	-3.8	-6.8
NUTRITION	123	221	244	246	194	190	228	7.5	20.0	9.2
PATHOLOGY	31	30	25	24	22	25	22	-3.5	-12.0	-4.8
PHARMACOLOGY	0	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0	0
ZOOLOGY	51	39	28	30	22	13	26	-20.4	100.0	-9.2
BIOSCIENCES, N.E.C.	22	93	98	159	157	163	180	39.6	10.4	35.0
HEALTH SCIENCES	2,870	3,614	4,333	4,270	4,429	4,654	4,791	8.4	2.9	7.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	363	616	869	690	1,007	1,096	1,100	20.2	.4	17.2
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	10	15	15	15	12	13	**	8.3	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	61	99	129	90	96	105	125	9.5	19.0	10.8
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	1,212	1,435	1,497	1,587	1,788	1,694	1,841	5.7	8.7	6.2
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	47	141	215	225	193	191	161	26.3	-15.7	19.2
HEALTH RELATED, N.E.C.	1,187	1,309	1,608	1,663	1,330	1,556	1,551	4.6	-.3	3.9
PSYCHOLOGY	6,462	7,299	7,800	7,008	7,314	6,443	7,203	*	11.8	1.6
SOCIAL SCIENCES	8,976	10,342	10,239	8,640	8,754	8,486	8,517	-.9	.4	-.7
AGRICULTURAL ECONOMICS	17	21	23	42	27	44	58	17.2	31.8	19.2
ANTHROPOLOGY	411	535	425	395	309	260	244	-7.3	-6.2	-7.2
ECONOMICS (EXCEPT AGRICULTURAL)	713	751	594	528	557	652	573	-1.5	-12.1	-3.1
GEOGRAPHY	715	566	457	479	449	460	431	-7.1	-6.3	-7.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	209	137	137	135	129	129	209	-7.7	62.0	.0
POLITICAL SCIENCE	3,974	4,339	4,315	4,142	4,403	4,047	3,930	.3	-2.9	-.2
SOCIOLOGY	753	852	658	557	667	566	531	-4.6	-6.2	-4.9
SOCIOLOGY/ANTHROPOLOGY	117	119	86	99	77	56	57	-11.6	1.8	-9.8
SOCIAL SCIENCES, N.E.C.	2,067	3,022	3,544	2,263	2,136	2,272	2,484	1.6	9.3	2.7

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-3. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	14,660	16,626	16,488	16,781	16,702	17,312	18,585	2.8	7.4	3.4
ENGINEERING	1,557	1,955	2,051	2,051	2,431	2,531	2,858	8.4	12.9	9.1
AEROSPACE	9	14	5	7	7	8	32	-1.9	300.0	19.9
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	18	30	10	10	10	18	19	.0	5.6	.8
CHEMICAL	79	57	89	99	112	113	97	6.1	-14.2	3.0
CIVIL	128	19	164	188	278	240	237	11.0	-1.3	9.2
ELECTRICAL	421	38	533	535	623	676	935	8.2	38.3	12.1
ENGINEERING SCIENCE	37	110	158	155	206	278	276	40.0	-.7	33.3
INDUSTRIAL	433	541	449	405	453	433	400	.0	-7.6	-1.1
MECHANICAL	351	294	430	444	404	384	493	7.3	28.4	10.1
METALLURGICAL/MATERIALS	17	21	32	33	50	59	63	23.0	6.8	20.6
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	12	19	4	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	152	172	181	175	288	322	306	13.3	-5.0	10.5
PHYSICAL SCIENCES	472	513	486	375	348	372	354	-3.9	-4.8	-4.0
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	367	378	335	313	303	326	302	-2.0	-7.4	-2.7
PHYSICS	85	108	72	62	44	46	52	-9.7	13.0	-6.8
PHYSICAL SCIENCES, N.E.C.	20	27	79	0	1	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES	43	82	92	109	112	95	101	14.1	6.3	13.0
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	3	0	0	0	0	0	0	-100.0	**	-100.0
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	40	82	92	109	112	95	101	15.5	6.3	14.1
MATHEMATICAL/COMPUTER SCIENCES	1,275	1,445	1,344	1,378	1,676	2,084	2,634	8.5	26.4	10.9
COMPUTER SCIENCE	964	1,107	1,061	1,130	1,455	1,882	2,430	11.8	29.1	14.1
MATHEMATICS AND APPLIED MATHEMATICS	167	180	115	125	136	112	128	-6.4	14.3	-3.7
STATISTICS	144	158	168	123	85	90	76	-7.5	-15.6	-8.7
LIFE SCIENCES	2,449	2,812	2,551	2,771	3,021	3,369	3,399	5.5	.9	4.8
AGRICULTURAL SCIENCES	31	51	23	24	52	64	61	12.8	-4.7	10.2
BIOLOGICAL SCIENCES	1,116	1,219	1,193	1,062	931	943	835	-2.8	-11.5	-4.1
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	90	65	53	45	39	34	40	-15.0	17.6	-10.9
BIOLOGY	772	766	835	703	531	546	455	-5.6	-16.7	-7.3
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	2	5	9	7	8	10	10	30.8	.0	25.8
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	53	38	40	25	24	**	-4.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	51	52	48	52	50	50	49	-.3	-2.0	-.6
MICROBIOLOGY	89	139	69	73	77	60	50	-6.4	-16.7	-7.9
NUTRITION	0	0	0	26	40	66	71	**	7.6	**
PATHOLOGY	0	11	11	15	18	22	21	**	-4.5	**
PHARMACOLOGY	0	3	8	10	11	11	6	**	-45.5	**
PHYSIOLOGY	58	64	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	8	7	9	6	19	19	14	15.5	-26.3	8.3
BIOSCIENCES, N.E.C.	46	107	98	87	98	100	95	13.8	-5.0	10.9
HEALTH SCIENCES	1,302	1,542	1,335	1,685	2,038	2,362	2,503	10.4	6.0	9.8
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	21	33	56	31	**	-44.6	**
DENTISTRY	21	26	0	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	29	29	14	14	14	**	.0	**
NURSING	270	340	326	437	625	861	921	21.3	7.0	19.2
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	18	14	11	11	11	16	**	45.5	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	35	62	**	77.1	**
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	259	306	338	280	263	233	220	-1.7	-5.6	-2.3
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	28	21	15	15	23	25	26	-1.9	4.0	-1.1
CLINICAL MEDICINE, N.E.C.	15	16	25	171	168	179	169	51.2	-5.6	41.3
HEALTH RELATED, N.E.C.	709	815	588	721	901	948	1,044	5.0	10.1	5.7
PSYCHOLOGY	2,917	3,271	4,013	4,244	4,325	4,573	4,836	7.8	5.8	7.5
SOCIAL SCIENCES	5,947	6,548	5,951	5,853	4,789	4,288	4,403	-5.3	2.7	-4.2
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0	0	0	0
ANTHROPOLOGY	5	5	7	4	4	0	1	-100.0	**	-20.5
ECONOMICS (EXCEPT AGRICULTURAL)	224	197	250	373	380	431	574	11.5	33.2	14.4
GEOGRAPHY	2	11	5	2	2	1	2	-10.9	100.0	.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	98	136	0	0	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	2,252	2,969	2,838	2,623	2,387	2,081	1,964	-1.3	-5.6	-1.9
SOCIOLOGY	298	239	299	228	112	27	29	-33.0	7.4	-28.3
SOCIOLOGY/ANTHROPOLOGY	15	13	12	12	12	35	111	15.2	217.1	33.1
SOCIAL SCIENCES, N.E.C.	3,053	2,978	2,540	2,611	1,892	1,713	1,722	-9.2	.5	-7.9

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-4. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1976-77 AND 1979-83

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL INSTITUTIONS	45,960	51,754	52,618	49,431	51,672	52,186	55,288	2.1	5.9	2.7
NEW ENGLAND	2,982	4,170	4,909	5,254	4,303	4,761	4,997	8.1	5.0	7.7
CONNECTICUT	1,404	2,058	2,766	2,879	2,597	3,119	3,232	14.2	3.6	12.6
MAINE	0	0	0	0	0	0	0	**	**	**
MASSACHUSETTS	857	1,348	1,380	1,579	1,533	1,398	1,450	8.5	3.7	7.8
NEW HAMPSHIRE	67	52	43	67	38	57	63	-2.7	10.5	-.9
RHODE ISLAND	58	78	112	123	129	182	212	21.0	16.5	20.3
VERMONT	596	634	608	606	6	5	40	-54.9	700.0	-32.0
MIDDLE ATLANTIC	9,933	10,551	9,187	7,089	8,082	8,485	9,256	-2.6	9.1	-1.0
NEW JERSEY	3,041	2,982	1,465	1,060	1,129	1,050	1,098	-16.2	4.6	-13.5
NEW YORK	4,872	5,443	5,502	3,983	4,630	5,059	5,875	.6	16.1	2.7
PENNSYLVANIA	2,020	2,126	2,220	2,046	2,323	2,376	2,283	2.7	-3.9	1.8
EAST NORTH CENTRAL	6,115	5,819	5,722	6,346	6,545	6,898	7,290	2.0	5.7	2.5
ILLINOIS	3,640	3,406	3,406	3,447	3,399	3,529	3,645	-.5	3.3	*
INDIANA	275	424	393	390	397	389	423	6.0	8.7	6.3
MICHIGAN	780	486	471	608	706	635	768	-3.4	20.9	-.2
OHIO	833	848	859	1,120	1,147	1,214	1,323	6.5	9.0	6.8
WISCONSIN	587	655	593	781	896	1,131	1,131	11.6	.0	9.8
WEST NORTH CENTRAL	1,543	1,608	1,765	1,926	1,741	1,774	2,044	2.4	15.2	4.1
IOWA	269	275	143	155	151	123	122	-12.2	-.8	-10.7
KANSAS	554	580	582	682	696	595	679	1.2	14.1	2.9
MINNESOTA	388	372	626	589	493	557	719	6.2	29.1	9.2
MISSOURI	323	367	403	479	389	489	509	7.2	4.1	6.7
NEBRASKA	9	14	11	21	12	10	15	1.8	50.0	7.6
NORTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH ATLANTIC	5,765	5,737	5,852	4,803	5,273	5,121	5,301	-2.0	3.5	-1.2
DELAWARE	0	0	0	0	0	0	0	**	**	**
DISTRICT OF COLUMBIA	104	99	94	95	108	137	144	4.7	5.1	4.8
FLORIDA	1,663	1,818	1,650	1,176	987	855	972	-10.5	13.7	-7.4
GEORGIA	677	652	502	431	437	458	315	-6.3	-31.2	-10.4
MARYLAND	1,121	1,021	1,972	1,832	1,942	1,844	1,875	8.6	1.7	7.6
NORTH CAROLINA	684	774	442	655	646	743	877	1.4	18.0	3.6
SOUTH CAROLINA	131	112	150	126	146	171	157	4.5	-8.2	2.6
VIRGINIA	890	824	922	488	463	385	410	-13.0	6.5	-10.5
WEST VIRGINIA	495	437	120	0	544	528	551	1.1	4.4	1.5
EAST SOUTH CENTRAL	1,6[illegible]	1,872	2,414	1,869	2,155	2,150	2,504	5.0	16.5	6.6
ALABAMA	288	349	573	497	502	600	641	13.0	6.8	12.1
KENTUCKY	380	590	688	641	660	623	687	8.6	10.3	8.8
MISSISSIPPI	349	332	290	237	211	226	287	-7.0	27.0	-2.8
TENNESSEE	585	601	863	494	782	701	889	3.1	26.8	6.2
WEST SOUTH CENTRAL	3,549	4,020	4,674	4,461	4,565	4,980	5,312	5.8	6.7	5.9
ARKANSAS	398	347	423	435	478	555	655	5.7	18.0	7.4
LOUISIANA	359	331	289	278	437	461	462	4.3	.2	3.7
OKLAHOMA	56	78	150	149	115	111	91	12.1	-18.0	7.2
TEXAS	2,736	3,264	3,812	3,599	3,535	3,853	4,104	5.9	6.5	6.0
MOUNTAIN	353	512	610	537	636	543	517	7.4	-4.8	5.6
ARIZONA	0	0	0	0	0	0	0	**	**	**
COLORADO	31	18	33	47	49	45	34	6.4	-24.4	1.3
IDAHO	0	0	0	0	0	0	0	**	**	**
MONTANA	25	21	31	41	46	59	75	15.4	27.1	17.0
NEVADA	161	249	209	189	214	187	190	2.5	1.6	2.4
NEW MEXICO	136	224	337	260	327	252	218	10.8	-13.5	7.0
UTAH	0	0	0	0	0	0	0	**	**	**
WYOMING	0	0	0	0	0	0	0	**	**	**
PACIFIC	14,096	17,394	17,446	17,095	18,339	17,439	18,032	3.6	3.4	3.6
ALASKA	79	206	186	220	221	209	213	17.6	1.9	15.2
CALIFORNIA	12,999	16,254	15,996	15,719	16,824	15,824	16,325	3.3	3.2	3.3
HAWAII	0	0	0	0	0	0	0	**	**	**
OREGON	149	141	130	170	283	236	265	8.0	12.3	8.6
WASHINGTON	869	793	1,134	986	1,011	1,170	1,229	5.1	5.0	5.1
OUTLYING AREAS	22	71	39	51	33	35	35	8.0	.0	6.9

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-9. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-83

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME					PART TIME 1/				
	NUMBER				PERCENT CHANGE, 1982-83	NUMBER				PERCENT CHANGE, 1982-83
	1980	1981	1982	1983		1980	1981	1982	1983	
TOTAL, ALL AREAS:	18,624	18,803	18,358	20,154	9.8	30,807	32,869	33,828	35,134	3.9
TOTAL US CITIZENS	16,565	16,422	15,737	17,263	9.7	-	-	31,879	33,240	4.3
BLACK, NON-HISPANIC	1,012	942	1,223	1,478	19.9	1,273	1,254	1,785	2,163	21.2
AMERICAN INDIAN/ALASKAN NATIVE	80	45	94	133	41.5	61	58	137	117	-14.6
ASIAN/PACIFIC ISLANDER	321	335	433	616	42.3	584	593	870	1,217	39.9
HISPANIC	387	404	472	740	56.8	580	578	849	1,221	43.8
WHITE, NON-HISPANIC	8,682	8,457	11,028	12,622	14.5	15,446	15,617	22,718	24,754	9.0
OTHER OR UNKNOWN	6,083	6,239	2,477	1,674	-32.4	-	-	5,520	3,768	-31.7
FOREIGN	2,059	2,381	2,621	2,891	10.3	-	-	1,949	1,894	-2.8
TOTAL, ENGINEERING:	1,168	1,440	1,552	1,677	8.1	3,773	4,666	4,864	5,067	4.2
TOTAL US CITIZENS	672	827	941	1,037	10.2	-	-	4,316	4,477	3.7
BLACK, NON-HISPANIC	36	31	46	56	21.7	60	68	114	154	35.1
AMERICAN INDIAN/ALASKAN NATIVE	0	0	5	10	100.0	0	1	18	15	-16.7
ASIAN/PACIFIC ISLANDER	22	50	97	122	25.8	187	172	241	464	92.5
HISPANIC	10	13	31	41	32.3	8/	59	76	123	61.8
WHITE, NON-HISPANIC	262	372	525	672	28.0	1,348	1,593	2,811	3,251	15.7
OTHER OR UNKNOWN	342	361	237	136	-42.6	-	-	1,056	470	-55.5
FOREIGN	496	613	611	640	4.7	-	-	548	590	7.7
TOTAL, SCIENCES:	17,456	17,363	16,806	18,477	9.9	27,036	28,203	28,964	30,067	3.8
TOTAL US CITIZENS	15,893	15,595	14,796	16,226	9.7	-	-	27,563	28,763	4.4
BLACK, NON-HISPANIC	976	911	1,187	1,422	19.8	1,213	1,186	1,671	2,009	20.2
AMERICAN INDIAN/ALASKAN NATIVE	80	45	89	123	38.2	61	57	119	102	-14.3
ASIAN/PACIFIC ISLANDER	299	285	336	494	47.0	397	421	629	753	19.7
HISPANIC	377	391	441	699	58.5	496	519	773	1,098	42.0
WHITE, NON-HISPANIC	8,420	8,085	10,503	11,950	13.8	14,098	14,024	19,907	21,503	8.0
OTHER OR UNKNOWN	5,741	5,878	2,240	1,538	-31.3	-	-	4,464	3,298	-26.1
FOREIGN	1,563	1,768	2,010	2,251	12.0	-	-	1,401	1,304	-6.9
TOTAL, PHYSICAL SCIENCES:	664	703	710	721	1.5	895	894	990	1,026	3.6
TOTAL US CITIZENS	506	514	517	530	2.5	-	-	877	924	5.4
BLACK, NON-HISPANIC	61	54	79	82	3.8	26	36	40	66	65.0
AMERICAN INDIAN/ALASKAN NATIVE	0	0	3	6	100.0	0	3	6	2	-66.7
ASIAN/PACIFIC ISLANDER	18	33	30	52	73.3	32	25	39	56	43.6
HISPANIC	17	9	12	15	25.0	16	9	23	9	-60.9
WHITE, NON-HISPANIC	281	289	327	340	4.0	480	403	628	698	11.1
OTHER OR UNKNOWN	129	129	66	35	-47.0	-	-	141	93	-34.0
FOREIGN	158	194	193	191	-1.0	-	-	113	102	-9.7
TOTAL, ENVIRONMENTAL SCIENCES:	704	547	563	623	10.7	709	812	854	719	-15.8
TOTAL US CITIZENS	640	508	520	586	12.7	-	-	827	691	-16.4
BLACK, NON-HISPANIC	12	12	17	6	-64.7	20	11	11	7	-36.4
AMERICAN INDIAN/ALASKAN NATIVE	2	1	2	1	-50.0	0	0	2	2	.0
ASIAN/PACIFIC ISLANDER	8	1	6	13	116.7	9	10	24	22	-8.3
HISPANIC	4	5	20	10	-50.0	12	3	15	16	6.7
WHITE, NON-HISPANIC	353	265	389	467	20.1	443	408	622	577	-7.2
OTHER OR UNKNOWN	261	224	86	89	3.5	-	-	153	67	-56.2
FOREIGN	64	39	43	37	-14.0	-	-	27	28	3.7
TOTAL, MATHEMATICAL/COMPUTER SCIENCES:	1,221	1,454	1,912	2,079	8.7	2,708	3,753	4,765	5,813	22.0
TOTAL US CITIZENS	926	981	1,326	1,463	10.3	-	-	4,296	5,288	23.1
BLACK, NON-HISPANIC	64	52	110	128	16.4	92	86	158	197	24.7
AMERICAN INDIAN/ALASKAN NATIVE	1	2	12	9	-25.0	2	1	14	13	-7.1
ASIAN/PACIFIC ISLANDER	66	80	106	168	58.5	140	118	227	264	16.3
HISPANIC	27	22	30	26	-13.3	39	67	89	99	11.2
WHITE, NON-HISPANIC	470	461	833	1,004	20.5	1,212	1,273	3,161	4,029	27.5
OTHER OR UNKNOWN	298	364	235	128	-45.5	-	-	647	686	6.0
FOREIGN	295	473	586	616	5.1	-	-	469	525	11.9

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TABLE D-5. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-83

- CONTINUED

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME					PART TIME 1/				
	NUMBER				PERCENT CHANGE, 1982-83	NUMBER				PERCENT CHANGE, 1982-83
	1980	1981	1982	1983		1980	1981	1982	1983	
TOTAL, AGRICULTURAL SCIENCES:	389	446	391	439	12.3	286	307	346	336	-2.9
TOTAL US CITIZENS	322	359	289	345	19.4	-	-	323	313	-3.1
BLACK, NON-HISPANIC	7	8	19	13	-31.6	6	23	4	4	.0
AMERICAN INDIAN/ALASKAN NATIVE	1	1	1	1	.0	0	1	2	5	150.0
ASIAN/PACIFIC ISLANDER	2	2	5	10	100.0	1	10	2	7	250.0
HISPANIC	13	14	17	19	11.8	4	4	10	4	-60.0
WHITE, NON-HISPANIC	133	194	193	262	35.8	138	105	286	249	-12.9
OTHER OR UNKNOWN	166	140	54	40	-25.9	-	-	19	44	131.6
FOREIGN	67	87	102	94	-7.8	-	-	23	23	.0
TOTAL, BIOLOGICAL SCIENCES:	2,111	2,128	1,763	1,923	9.1	3,103	2,868	2,670	2,612	-2.2
TOTAL US CITIZENS	1,869	1,913	1,595	1,732	8.6	-	-	2,556	2,507	-1.9
BLACK, NON-HISPANIC	164	137	152	213	40.1	111	110	148	151	2.0
AMERICAN INDIAN/ALASKAN NATIVE	0	3	8	12	50.0	2	3	12	14	16.7
ASIAN/PACIFIC ISLANDER	52	34	29	46	58.6	43	45	63	83	31.7
HISPANIC	30	46	39	85	117.9	44	52	79	69	-12.7
WHITE, NON-HISPANIC	1,095	1,039	1,240	1,276	2.9	1,988	1,656	1,906	1,946	2.1
OTHER OR UNKNOWN	528	654	127	100	-21.3	-	-	348	244	-29.9
FOREIGN	242	215	168	191	13.7	-	-	114	105	-7.9
TOTAL, HEALTH SCIENCES:	2,198	2,472	2,447	2,658	8.6	3,757	3,995	4,569	4,636	1.5
TOTAL US CITIZENS	2,126	2,402	2,295	2,481	8.1	-	-	4,427	4,490	1.4
BLACK, NON-HISPANIC	116	94	127	142	11.8	196	190	231	332	43.7
AMERICAN INDIAN/ALASKAN NATIVE	8	5	12	18	50.0	30	11	15	20	33.3
ASIAN/PACIFIC ISLANDER	45	34	29	34	17.2	32	72	63	68	7.9
HISPANIC	51	62	46	68	47.8	85	64	81	162	100.0
WHITE, NON-HISPANIC	1,333	1,203	1,803	2,110	17.0	2,448	2,460	3,429	3,606	5.2
OTHER OR UNKNOWN	573	1,004	278	109	-60.8	-	-	608	302	-50.3
FOREIGN	72	70	152	177	16.4	-	-	142	146	2.8
TOTAL, PSYCHOLOGY:	5,112	5,181	4,715	5,437	15.3	6,140	6,458	6,301	6,602	4.8
TOTAL US CITIZENS	4,956	5,009	4,523	5,251	16.1	-	-	6,206	6,513	4.9
BLACK, NON-HISPANIC	187	195	219	283	29.2	207	204	293	364	24.2
AMERICAN INDIAN/ALASKAN NATIVE	41	15	22	29	31.8	11	17	31	18	-41.9
ASIAN/PACIFIC ISLANDER	55	37	45	79	75.6	29	35	44	80	81.8
HISPANIC	125	84	96	248	158.3	128	89	135	313	131.9
WHITE, NON-HISPANIC	2,848	2,939	3,624	4,056	11.9	2,891	3,905	4,762	5,175	8.7
OTHER OR UNKNOWN	1,700	1,739	517	556	7.5	-	-	941	563	-40.2
FOREIGN	156	172	192	186	-3.1	-	-	95	89	-6.3
TOTAL, SOCIAL SCIENCES:	5,057	4,427	4,305	4,597	6.8	9,436	9,116	8,469	8,323	-1.7
TOTAL US CITIZENS	4,548	3,909	3,731	3,838	2.9	-	-	8,051	8,037	-.2
BLACK, NON-HISPANIC	365	359	464	555	19.6	595	526	786	888	13.0
AMERICAN INDIAN/ALASKAN NATIVE	27	18	29	47	62.1	16	21	37	28	-24.3
ASIAN/PACIFIC ISLANDER	53	64	86	92	7.0	111	106	167	173	3.6
HISPANIC	110	149	181	228	26.0	148	231	341	426	24.9
WHITE, NON-HISPANIC	1,907	1,695	2,094	2,435	16.3	4,498	4,214	5,113	5,223	2.2
OTHER OR UNKNOWN	2,086	1,624	877	481	-45.2	-	-	1,607	1,299	-19.2
FOREIGN	509	518	574	759	32.2	-	-	418	286	-31.6

1/ FOR PART TIME STUDENTS, DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED PRIOR TO 1982.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-6. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	16,799	18,711	18,970	18,624	18,803	18,358	20,154	1.5	9.8	2.7
ENGINEERING	733	890	1,049	1,168	1,440	1,552	1,677	13.3	8.1	12.6
AEROSPACE	12	9	1	3	3	3	15	-20.6	400.0	3.2
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	2	0	19	17	14	23	19	50.2	-17.4	37.9
CHEMICAL	34	30	51	59	68	84	79	16.3	-6.0	12.8
CIVIL	147	222	271	233	400	341	285	15.1	-16.4	9.9
ELECTRICAL	84	192	188	270	294	256	349	20.4	36.3	22.6
ENGINEERING SCIENCE	5	9	8	17	16	25	25	30.8	.0	25.8
INDUSTRIAL	103	131	117	196	210	241	213	15.2	-11.6	10.9
MECHANICAL	58	108	91	111	85	139	152	15.7	9.4	14.8
METALLURGICAL/MATERIALS	7	10	15	18	18	25	18	23.6	-28.0	14.4
MINING	11	7	6	7	17	22	24	12.2	9.1	11.8
NUCLEAR	0	5	0	0	0	0	0	**	**	**
PETROLEUM	0	0	1	12	3	6	13	**	116.7	**
ENGINEERING, N.E.C.	270	167	281	225	312	387	485	6.2	25.3	8.7
PHYSICAL SCIENCES	662	758	738	664	708	710	721	1.2	1.5	1.2
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	427	554	519	504	557	543	548	4.1	.9	3.6
PHYSICS	189	159	184	134	123	129	132	-6.2	2.3	-5.0
PHYSICAL SCIENCES, N.E.C.	46	45	35	26	28	38	41	-3.1	7.9	-1.6
ENVIRONMENTAL SCIENCES	551	537	553	704	547	563	623	.4	10.7	1.8
ATMOSPHERIC SCIENCES	0	4	3	12	6	8	7	**	-12.5	**
GEOSCIENCES	185	190	216	258	187	236	295	4.1	25.0	6.9
OCEANOGRAPHY	35	31	23	38	33	42	65	3.1	54.8	9.2
ENVIRONMENTAL SCIENCES, N.E.C.	331	312	311	396	321	277	256	-2.9	-7.6	-3.6
MATHEMATICAL/COMPUTER SCIENCES	1,136	959	1,312	1,221	1,454	1,912	2,079	9.1	8.7	9.0
COMPUTER SCIENCE	465	408	780	687	980	1,263	1,420	18.1	12.4	17.3
MATHEMATICS AND APPLIED MATHEMATICS	648	535	520	528	470	634	651	-.4	2.7	.1
STATISTICS	23	16	12	6	4	15	8	-6.9	-46.7	-14.0
LIFE SCIENCES	4,332	4,525	4,679	4,696	5,046	4,601	5,020	1.0	9.1	2.1
AGRICULTURAL SCIENCES	277	371	423	389	446	391	439	5.9	12.3	6.8
BIOLOGICAL SCIENCES	2,463	2,375	2,381	2,111	2,128	1,763	1,923	-5.4	9.1	-3.5
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	46	33	49	32	19	18	26	-14.5	44.4	-7.8
BIOLOGY	2,069	1,936	2,062	1,714	1,754	1,420	1,522	-6.1	7.2	-4.3
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	75	38	50	36	32	26	30	-16.2	15.4	-12.3
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	8	0	18	10	8	5	9	-7.5	80.0	1.7
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	32	38	43	48	47	47	45	6.6	-4.3	5.0
MICROBIOLOGY	80	113	21	61	46	18	24	-22.0	33.3	-15.8
NUTRITION	66	109	75	109	94	94	120	6.1	27.7	8.9
PATHOLOGY	3	5	1	6	3	7	5	15.2	-28.6	7.6
PHARMACOLOGY	0	1	2	2	1	1	2	**	100.0	**
PHYSIOLOGY	5	15	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	51	42	29	36	21	18	27	-15.9	50.0	-8.7
BIOSCIENCES, N.E.C.	28	38	31	57	103	109	113	25.4	3.7	22.1
HEALTH SCIENCES	1,592	1,879	1,875	2,198	2,472	2,447	2,658	7.4	8.6	7.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	18	25	25	21	**	-16.0	**
DENTISTRY	21	26	0	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	22	22	14	14	14	**	.0	**
NURSING	196	328	195	243	402	430	487	14.0	13.3	13.9
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	12	19	15	16	13	15	**	15.4	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	21	20	33	25	30	27	35	4.3	29.6	7.6
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	617	783	777	878	963	965	965	7.7	.0	6.6
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	21	16	12	12	22	22	26	.8	18.2	3.1
CLINICAL MEDICINE, N.E.C.	4	37	37	71	62	69	74	60.7	7.2	51.7
HEALTH RELATED, N.E.C.	712	657	780	914	938	882	1,021	3.6	15.8	5.3
PSYCHOLOGY	4,167	4,444	5,128	5,112	5,181	4,715	5,437	2.1	15.3	3.9
SOCIAL SCIENCES	5,178	6,598	5,511	5,057	4,427	4,305	4,597	-3.0	6.8	-1.7
AGRICULTURAL ECONOMICS	13	18	18	35	23	22	53	9.2	140.9	22.2
ANTHROPOLOGY	143	168	127	140	79	78	74	-9.6	-5.1	-9.0
ECONOMICS (EXCEPT AGRICULTURAL)	376	344	236	326	298	392	356	.7	-9.2	-.8
GEOGRAPHY	241	196	184	198	187	162	187	-6.4	15.4	-3.6
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	50	39	21	26	14	12	59	-21.2	391.7	2.4
POLITICAL SCIENCE	1,581	1,990	1,562	1,507	1,626	1,602	1,712	.2	6.9	1.1
SOCIOLOGY	465	439	468	346	306	232	233	-10.9	.4	-9.4
SOCIOLOGY/ANTHROPOLOGY	108	80	55	56	51	45	75	-13.6	66.7	-5.1
SOCIAL SCIENCES, N.E.C.	2,201	3,324	2,840	2,423	1,843	1,760	1,848	-3.7	5.0	-2.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-7. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	11,306	12,414	13,006	12,590	12,994	12,213	13,747	1.3	12.6	2.8
ENGINEERING	512	572	680	716	859	963	1,066	11.1	10.7	11.0
AEROSPACE	*	2	0	0	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	17	17	14	19	17	**	-10.5	**
CHEMICAL	9	10	15	16	22	35	40	25.4	14.3	23.8
CIVIL	115	188	225	159	236	215	175	11.0	-18.6	6.2
ELECTRICAL	33	85	81	158	179	136	169	26.6	24.3	26.3
ENGINEERING SCIENCE	2	6	5	7	5	11	12	32.9	9.1	29.2
INDUSTRIAL	45	61	40	119	137	172	158	25.0	-8.1	19.7
MECHANICAL	27	62	41	34	31	86	74	21.3	-14.0	15.5
METALLURGICAL/MATERIALS	7	10	14	18	18	25	18	23.6	-28.0	14.4
MINING	11	7	6	7	17	22	24	12.2	9.1	11.8
NUCLEAR	0	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	1	12	3	6	13	**	116.7	**
ENGINEERING, N.E.C.	257	141	235	169	197	236	366	-1.4	55.1	5.2
PHYSICAL SCIENCES	581	596	566	543	585	604	613	1.5	1.5	1.5
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	349	432	385	401	450	451	454	4.4	.7	3.8
PHYSICS	157	125	150	116	108	115	118	-5.1	2.6	-4.0
PHYSICAL SCIENCES, N.E.C.	45	39	31	26	27	38	41	-2.8	7.9	-1.3
ENVIRONMENTAL SCIENCES	525	500	511	641	492	513	559	-.4	9.0	.9
ATMOSPHERIC SCIENCES	0	4	3	12	6	8	7	**	-12.5	**
GEOSCIENCES	183	190	216	258	187	236	295	4.3	25.0	7.1
OCEANOGRAPHY	35	31	23	38	33	42	65	3.1	54.8	9.2
ENVIRONMENTAL SCIENCES, N.E.C.	307	275	269	333	266	227	192	-4.9	-15.4	-6.5
MATHEMATICAL/COMPUTER SCIENCES	800	696	873	815	932	1,290	1,499	8.3	16.2	9.4
COMPUTER SCIENCE	192	208	381	319	488	661	860	22.9	30.1	23.9
MATHEMATICS AND APPLIED MATHEMATICS	587	474	481	490	440	615	631	.8	2.6	1.0
STATISTICS	21	14	11	6	4	14	8	-6.5	-42.9	-12.9
LIFE SCIENCES	3,333	3,436	3,794	3,778	3,890	3,429	3,759	.5	9.6	1.7
AGRICULTURAL SCIENCES	246	239	400	365	394	328	378	4.9	15.2	6.3
BIOLOGICAL SCIENCES	2,083	2,009	2,062	1,867	1,873	1,484	1,644	-5.5	10.8	-3.3
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	24	19	21	11	0	0	0	-100.0	**	-100.0
BIOLOGY	1,802	1,732	1,838	1,568	1,618	1,268	1,385	-5.7	9.2	-3.7
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	74	37	49	35	31	24	28	-17.1	16.7	-13.0
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	8	7	18	10	7	5	7	-7.5	40.0	-1.9
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0	0	0
MICROBIOLOGY	41	40	17	54	41	7	10	-25.5	42.9	-18.3
NUTRITION	66	10	75	106	93	93	118	5.9	26.9	8.7
PATHOLOGY	3	1	1	4	1	1	2	-16.7	100.0	-5.6
PHARMACOLOGY	0	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0	0
ZOOLOGY	45	36	24	30	16	13	19	-18.7	46.2	-11.6
BIOSCIENCES, N.E.C.	20	28	19	49	66	73	75	24.1	2.7	20.8
HEALTH SCIENCES	1,004	1,188	1,332	1,546	1,623	1,617	1,727	8.3	7.4	8.1
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	68	148	131	130	204	205	222	20.2	8.3	18.4
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	10	15	15	15	12	13	**	8.3	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	21	20	33	25	30	26	32	3.6	23.1	6.2
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	450	601	594	695	811	817	825	10.5	1.0	9.0
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	4	37	36	40	33	40	50	46.8	25.0	43.5
HEALTH RELATED, N.E.C.	461	372	523	641	530	517	595	1.9	15.1	3.7
PSYCHOLOGY	2,838	3,056	3,227	3,261	3,433	2,673	3,[illegible]	-1.0	[illegible]	1.8
SOCIAL SCIENCES	2,747	3,558	3,355	2,836	2,803	2,741	3,035	*	[illegible]	1.4
AGRICULTURAL ECONOMICS	13	18	18	35	23	72	53	9.2	[illegible]	22.2
ANTHROPOLOGY	142	166	126	140	78	78	73	-9.5	[illegible]	-9.1
ECONOMICS (EXCEPT AGRICULTURAL)	287	285	182	200	183	281	227	-.4	-19.2	-3.3
GEOGRAPHY	241	196	184	198	187	162	187	-6.4	15.4	-3.6
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	48	36	21	26	14	12	59	-20.6	391.7	3.0
POLITICAL SCIENCE	991	1,190	897	976	1,085	972	1,047	-.3	7.7	.8
SOCIOLOGY	283	307	301	225	290	227	223	-3.6	-1.8	-3.3
SOCIOLOGY/ANTHROPOLOGY	93	68	43	45	40	33	29	-15.9	-12.1	-15.3
SOCIAL SCIENCES, N.E.C.	649	1,292	1,583	991	903	954	1,137	6.6	19.2	8.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-8. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	5,428	6,297	5,964	6,034	5,809	6,145	6,407	2.0	4.3	2.3
ENGINEERING	221	318	369	452	581	589	611	17.7	3.7	15.6
AEROSPACE	6	7	1	3	3	3	15	-10.9	400.0	14.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	2	0	2	0	0	4	2	12.2	-50.0	.0
CHEMICAL	25	20	36	43	46	49	39	11.9	-20.4	6.6
CIVIL	32	34	46	74	164	126	110	25.7	-12.7	19.3
ELECTRICAL	51	107	107	112	115	120	180	15.3	50.0	19.7
ENGINEERING SCIENCE	3	3	3	10	11	14	13	29.3	-7.1	23.3
INDUSTRIAL	58	70	77	77	73	69	55	2.9	-20.3	-.8
MECHANICAL	31	46	50	77	54	53	78	9.4	47.2	14.1
METALLURGICAL/MATERIALS	0	0	1	0	0	0	0	**	**	**
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	0	5	0	0	0	0	0	**	**	**
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	13	26	46	56	115	151	119	50.5	-21.2	37.2
PHYSICAL SCIENCES	111	162	172	121	123	106	108	-.8	1.9	-.4
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	78	122	134	103	107	92	94	2.8	2.2	2.7
PHYSICS	32	34	34	18	15	14	14	-12.9	.0	-11.1
PHYSICAL SCIENCES, N.E.C.	1	6	4	0	1	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES	26	37	42	63	55	50	64	11.5	28.0	13.7
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	2	0	0	0	0	0	0	-100.0	**	-100.0
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	24	37	42	63	55	50	64	13.0	28.0	15.0
MATHEMATICAL/COMPUTER SCIENCES	336	263	439	406	522	622	580	10.8	-6.8	8.1
COMPUTER SCIENCE	273	200	399	368	492	602	560	14.1	-7.0	10.8
MATHEMATICS AND APPLIED MATHEMATICS	61	61	39	38	30	19	20	-17.7	5.3	-14.7
STATISTICS	2	2	1	0	0	1	0	-10.9	-100.0	-100.0
LIFE SCIENCES	999	1,099	885	920	1,156	1,172	1,261	2.7	7.6	3.4
AGRICULTURAL SCIENCES	31	32	23	24	52	63	61	12.5	-3.2	10.2
BIOLOGICAL SCIENCES	380	366	319	244	255	279	279	-5.0	.0	-4.3
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	22	14	28	21	19	18	26	-3.3	44.4	2.4
BIOLOGY	267	204	224	146	136	152	137	-9.0	-9.9	-9.1
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	1	1	1	1	1	2	2	12.2	.0	10.4
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	1	0	2	**	**	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	32	38	43	48	47	47	45	6.6	-4.3	5.0
MICROBIOLOGY	39	73	4	7	5	11	14	-19.0	27.3	-12.6
NUTRITION	0	0	0	3	1	1	2	**	100.0	**
PATHOLOGY	0	4	0	2	2	6	3	**	-50.0	**
PHARMACOLOGY	0	1	2	2	1	1	2	**	100.0	**
PHYSIOLOGY	5	15	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	6	6	5	6	5	5	8	-3.0	60.0	4.2
BIOSCIENCES, N.E.C.	8	10	12	8	37	36	38	28.5	5.6	24.9
HEALTH SCIENCES	588	691	543	652	849	830	921	5.9	11.0	6.4
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	18	25	25	21	**	-16.0	**
DENTISTRY	21	26	0	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	22	22	14	14	14	**	.0	**
NURSING	128	180	64	113	198	225	265	9.9	17.8	11.0
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	2	4	0	1	1	2	**	100.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	1	3	**	200.0	**
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	167	182	183	183	152	148	140	-2.0	-5.4	-2.5
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	21	16	12	12	22	22	26	.8	18.2	3.1
CLINICAL MEDICINE, N.E.C.	0	0	1	31	29	29	24	**	-17.2	**
HEALTH RELATED, N.E.C.	251	285	257	273	408	365	426	6.4	16.7	7.8
PSYCHOLOGY	1,329	1,388	1,901	1,851	1,748	2,042	2,221	7.4	8.8	7.6
SOCIAL SCIENCES	2,431	3,040	2,156	2,221	1,624	1,564	1,562	-7.1	-.1	-6.1
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0	0	0	0
ANTHROPOLOGY	1	2	1	0	1	0	1	-100.0	**	.0
ECONOMICS (EXCEPT AGRICULTURAL)	89	59	54	126	115	111	129	3.8	16.2	5.4
GEOGRAPHY	0	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	2	3	0	0	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	590	800	665	531	541	630	665	1.1	5.6	1.7
SOCIOLOGY	182	132	167	121	16	5	10	-45.1	100.0	-33.9
SOCIOLOGY/ANTHROPOLOGY	15	12	12	11	11	12	46	-3.7	283.3	17.4
SOCIAL SCIENCES, N.E.C.	1,552	2,032	1,257	1,432	940	806	711	-10.3	-11.8	-10.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-9. — MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	10,667	11,311	11,175	10,222	9,820	9,620	10,066	-1.7	4.6	-.8
ENGINEERING	692	835	949	1,075	1,293	1,382	1,448	12.2	4.8	11.1
AEROSPACE	12	9	1	3	3	3	15	-20.6	400.0	3.2
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	2	0	19	15	13	17	14	42.9	-17.6	32.0
CHEMICAL	33	27	46	56	63	72	68	13.9	-5.6	10.9
CIVIL	126	193	228	210	347	298	236	15.4	-20.8	9.4
ELECTRICAL	82	187	184	256	275	295	311	19.2	32.3	21.0
ENGINEERING SCIENCE	5	9	8	15	15	21	21	27.0	.0	22.8
INDUSTRIAL	102	128	103	173	185	209	167	12.7	-20.1	7.3
MECHANICAL	95	104	88	109	81	130	139	15.4	6.9	14.2
METALLURGICAL/MATERIALS	5	8	14	17	15	22	14	28.0	-36.4	15.8
MINING	10	7	6	6	15	20	19	12.7	-5.0	9.6
NUCLEAR	0	5	0	0	0	0	0	**	**	**
PETROLEUM	0	0	1	11	3	6	13	**	116.7	**
ENGINEERING, N.E.C.	260	158	251	2[illegible]	278	349	431	5.0	23.5	7.5
PHYSICAL SCIENCES	531	597	577	494	522	514	518	-.5	.8	-.4
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	331	431	399	357	390	376	372	2.1	-1.1	1.7
PHYSICS	168	131	151	116	110	111	112	-6.7	.9	-5.6
PHYSICAL SCIENCES, N.E.C.	32	35	27	21	22	27	34	-2.8	25.9	.9
ENVIRONMENTAL SCIENCES	433	439	447	521	390	400	422	-1.3	5.5	-.4
ATMOSPHERIC SCIENCES	0	3	2	12	6	6	5	**	-16.7	**
GEOSCIENCES	158	167	185	190	137	193	229	3.4	18.7	5.4
OCEANOGRAPHY	24	20	14	26	33	19	42	-3.8	121.1	8.3
ENVIRONMENTAL SCIENCES, N.E.C.	251	249	246	293	214	182	146	-5.2	-19.8	-7.4
MATHEMATICAL/COMPUTER SCIENCES	825	727	998	883	1,009	1,327	1,382	8.2	4.2	7.7
COMPUTER SCIENCE	383	325	640	516	718	920	979	15.7	6.4	14.3
MATHEMATICS AND APPLIED MATHEMATICS	423	390	347	362	288	399	400	-1.0	.3	-.8
STATISTICS	19	12	11	5	3	8	4	-13.4	-50.0	-20.0
LIFE SCIENCES	2,505	2,504	2,587	2,283	2,281	1,681	1,969	-4.[illegible]	4.7	-3.4
AGRICULTURAL SCIENCES	225	227	385	345	347	303	320	5.1	5.6	5.2
BIOLOGICAL SCIENCES	1,685	1,622	1,553	1,335	1,290	996	1,043	-8.4	4.7	-6.6
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	32	27	37	21	0	16	16	-10.9	.0	-9.4
BIOLOGY	1,457	1,363	1,379	1,149	1,137	827	885	-9.0	7.0	-6.9
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	47	29	46	29	20	20	20	-13.3	.0	-11.5
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	5	4	12	8	3	4	6	-3.7	50.0	2.6
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	5	2	0	4	3	4	3	-3.7	-25.0	-7.0
MICROBIOLOGY	61	90	12	35	10	9	11	-27.3	22.2	-21.7
NUTRITION	24	27	18	36	40	29	21	3.2	-27.6	-1.9
PATHOLOGY	1	4	0	4	2	7	2	38.3	-71.4	10.4
PHARMACOLOGY	0	1	2	1	1	1	1	**	.0	**
PHYSIOLOGY	8	15	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	31	32	24	19	15	14	13	-12.4	-7.1	-11.7
BIOSCIENCES, N.E.C.	17	28	39	29	59	65	65	25.0	.0	21.1
HEALTH SCIENCES	595	655	649	603	644	582	606	-.4	4.1	.3
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	21	26	0	11	12	14	9	**	-35.7	**
ENDOCRINOLOGY	0	0	0	0	0	0	0	-100.0	**	-100.0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	32	46	18	18	6	6	14	**	133.3	**
OBSTETRICS/GYNECOLOGY	0	0	11	9	28	29	62	-1.6	113.8	9.9
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	9	14	10	16	9	10	**	11.1	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	-	10	15	8	6	6	16	-2.5	166.7	12.5
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	89	149	105	84	109	82	67	-1.4	-18.3	-4.0
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	15	11	9	12	15	12	12	-2.4	-7.7	-3.1
CLINICAL MEDICINE, N.E.C.	2	15	12	21	21	19	30	45.5	57.9	47.2
HEALTH RELATED, N.E.C.	429	389	465	430	431	404	386	-1.0	-4.5	-1.5
PSYCHOLOGY	2,391	2,347	2,668	2,170	1,893	1,678	1,822	-5.7	8.6	-3.8
SOCIAL SCIENCES	3,290	3,862	2,949	2,796	2,432	2,438	2,504	-4.9	2.7	-3.8
AGRICULTURAL ECONOMICS	13	17	15	30	18	18	44	5.6	144.4	19.0
ANTHROPOLOGY	89	90	62	76	42	42	36	-11.8	-14.3	-12.1
ECONOMICS (EXCEPT AGRICULTURAL)	311	282	187	256	230	299	271	-.7	-9.4	-1.9
GEOGRAPHY	183	147	120	145	133	115	135	-7.5	17.4	-4.3
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	26	23	15	12	7	4	27	-26.8	575.0	.5
POLITICAL SCIENCE	1,141	1,499	1,026	996	1,013	1,057	1,102	-1.3	4.3	-.5
SOCIOLOGY	265	253	232	141	140	86	93	-17.1	8.1	-13.9
SOCIOLOGY/ANTHROPOLOGY	64	46	30	23	22	26	38	-13.9	46.2	-7.2
SOCIAL SCIENCES, N.E.C.	1,198	1,505	1,262	1,117	827	791	758	-6.7	-4.2	-6.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-10. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	6,092	7,400	7,795	8,402	8,983	8,738	10,088	6.2	15.4	7.5
ENGINEERING	41	56	100	93	147	170	229	26.7	34.7	27.9
AEROSPACE	0	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	2	1	6	5	**	-16.7	**
CHEMICAL	1	3	5	3	5	12	11	51.3	-8.3	40.9
CIVIL	21	29	43	23	53	43	49	12.7	14.0	12.9
ELECTRICAL	2	5	4	14	19	21	38	48.0	81.0	52.3
ENGINEERING SCIENCE	0	0	0	2	1	4	4	**	.0	**
INDUSTRIAL	1	3	14	23	25	32	46	78.2	43.8	72.8
MECHANICAL	3	4	3	2	4	9	13	20.1	44.4	23.3
METALLURGICAL/MATERIALS	2	2	1	1	3	3	4	7.0	33.3	10.4
MINING	1	0	0	1	2	2	5	12.2	150.0	25.8
NUCLEAR	0	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	1	0	0	0	**	**	**
ENGINEERING, N.E.C.	10	9	30	21	34	38	54	24.9	42.1	27.2
PHYSICAL SCIENCES	131	161	161	170	186	196	203	6.9	3.6	6.5
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	96	123	120	147	167	167	176	9.7	5.4	9.0
PHYSICS	21	28	33	18	13	18	20	-2.5	11.1	-.7
PHYSICAL SCIENCES, N.E.C.	14	10	8	5	6	11	7	-3.9	-36.4	-9.4
ENVIRONMENTAL SCIENCES	118	98	106	183	157	163	201	5.5	23.3	7.9
ATMOSPHERIC SCIENCES	0	1	1	0	0	2	2	**	.0	**
GEOSCIENCES	27	23	31	68	50	43	66	8.1	53.5	13.6
OCEANOGRAPHY	11	11	9	12	0	23	23	13.1	.0	11.1
ENVIRONMENTAL SCIENCES, N.E.C.	80	63	65	103	107	95	110	2.9	15.8	4.7
MATHEMATICAL/COMPUTER SCIENCES	311	232	314	338	445	585	696	11.1	19.0	12.2
COMPUTER SCIENCE	82	83	140	171	262	343	441	26.9	28.6	27.2
MATHEMATICS AND APPLIED MATHEMATICS	225	145	173	166	182	235	251	.7	6.8	1.6
STATISTICS	4	4	1	1	1	7	4	9.8	-42.9	.0
LIFE SCIENCES	1,827	2,021	2,092	2,415	2,765	2,720	3,051	6.9	12.2	7.4
AGRICULTURAL SCIENCES	52	44	38	44	99	88	119	9.2	35.2	17.6
BIOLOGICAL SCIENCES	778	753	828	776	838	767	880	-.2	14.7	1.8
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	14	6	12	11	19	2	10	-27.7	400.0	-.7
BIOLOGY	612	573	683	565	617	593	637	-.5	7.4	.6
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	28	9	4	7	12	6	10	-22.6	66.7	-13.7
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	3	3	6	2	5	1	3	-16.7	200.0	.0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	27	36	43	44	44	43	42	8.1	-2.3	6.5
MICROBIOLOGY	19	23	9	26	36	9	13	-11.7	44.4	-5.3
NUTRITION	42	82	57	73	54	65	99	7.6	52.3	13.0
PATHOLOGY	2	1	1	2	1	0	3	-100.0	**	6.0
PHARMACOLOGY	0	0	0	1	0	0	1	**	**	**
PHYSIOLOGY	0	0	0	0	0	0	0	0	0	0
ZOOLOGY	20	10	5	17	6	4	14	-23.5	250.0	-5.0
BIOSCIENCES, N.E.C.	11	10	8	28	44	44	48	26.0	9.1	23.4
HEALTH SCIENCES	997	1,224	1,226	1,595	1,828	1,865	2,052	11.0	10.0	10.9
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	7	13	11	12	**	9.1	**
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	4	4	8	8	0	**	-100.0	**
NURSING	164	282	184	234	374	401	425	16.1	6.0	14.6
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	3	5	5	0	4	5	**	25.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	14	10	18	17	24	21	19	7.0	-9.5	4.5
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	528	634	672	794	854	883	898	8.9	1.7	7.9
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	6	5	3	0	7	9	14	7.0	55.6	12.9
CLINICAL MEDICINE, N.E.C.	2	22	25	50	41	50	44	71.0	-12.0	55.5
HEALTH RELATED, N.E.C.	283	268	315	484	507	478	635	9.1	32.8	12.2
PSYCHOLOGY	1,776	2,097	2,460	2,942	3,288	3,037	3,615	9.4	19.0	10.7
SOCIAL SCIENCES	1,888	2,736	2,562	2,261	1,995	1,867	2,093	-.2	12.1	1.5
AGRICULTURAL ECONOMICS	0	1	3	5	5	4	9	**	125.0	**
ANTHROPOLOGY	54	78	65	64	37	36	38	-6.5	5.6	-4.9
ECONOMICS (EXCEPT AGRICULTURAL)	65	62	49	70	68	93	85	6.2	-8.6	3.9
GEOGRAPHY	58	49	64	53	54	47	52	-3.4	10.6	-1.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	24	16	6	14	7	8	32	-16.7	300.0	4.2
POLITICAL SCIENCE	440	491	536	511	613	545	610	3.6	11.9	4.8
SOCIOLOGY	200	186	236	205	166	146	140	-5.1	-4.1	-5.0
SOCIOLOGY/ANTHROPOLOGY	44	34	25	33	29	19	37	-13.1	94.7	-2.4
SOCIAL SCIENCES, N.E.C.	1,003	1,819	1,578	1,306	1,016	969	1,090	-.6	12.5	1.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-11. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY FEDERAL SOURCES IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	1,797	2,185	1,579	1,579	1,233	1,277	1,209	-5.5	-5.3	-5.5
ENGINEERING	107	100	54	84	51	90	84	-2.8	-6.7	-3.4
AEROSPACE	1	0	0	0	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0	0
CHEMICAL	1	0	0	0	0	0	0	-100.0	**	-100.0
CIVIL	43	40	29	15	8	8	8	-24.4	.0	-21.4
ELECTRICAL	11	21	3	34	14	26	29	15.4	11.5	14.9
ENGINEERING SCIENCE	1	1	2	4	2	0	2	-100.0	**	10.4
INDUSTRIAL	14	7	0	8	2	7	6	-10.9	-14.3	-11.4
MECHANICAL	10	13	0	0	0	2	6	-23.5	200.0	-7.0
METALLURGICAL/MATERIALS	1	4	5	3	7	11	4	49.1	-63.6	21.9
MINING	5	3	2	1	3	5	3	.0	-40.0	-7.0
NUCLEAR	0	2	0	0	0	0	0	**	**	**
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	20	9	13	16	15	31	26	7.6	-16.1	3.8
PHYSICAL SCIENCES	34	54	78	52	57	69	78	12.5	13.0	12.6
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	26	42	71	48	51	57	62	14.0	8.8	13.2
PHYSICS	8	8	6	4	5	12	16	7.0	33.3	10.4
PHYSICAL SCIENCES, N.E.C.	0	4	1	0	1	0	0	**	**	**
ENVIRONMENTAL SCIENCES	48	62	58	73	45	46	43	-.7	-6.5	-1.6
ATMOSPHERIC SCIENCES	0	0	2	1	0	2	0	**	-100.0	**
GEOSCIENCES	27	20	14	22	16	14	17	-10.4	21.4	-6.4
OCEANOGRAPHY	0	0	3	8	0	1	10	**	900.0	**
ENVIRONMENTAL SCIENCES, N.E.C.	21	42	39	42	29	29	16	5.5	-44.8	-3.8
MATHEMATICAL/COMPUTER SCIENCES	56	53	24	100	78	118	98	13.2	-16.9	8.3
COMPUTER SCIENCE	28	29	15	74	64	102	85	24.0	-16.7	17.2
MATHEMATICS AND APPLIED MATHEMATICS	28	23	8	26	14	16	13	-8.9	-18.8	-10.4
STATISTICS	0	1	1	0	0	0	0	**	**	**
LIFE SCIENCES	472	524	628	630	608	560	477	2.9	-14.8	.2
AGRICULTURAL SCIENCES	56	25	31	43	22	17	35	-18.0	105.9	-6.5
BIOLOGICAL SCIENCES	179	193	249	197	252	215	209	3.1	-2.8	2.2
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	1	2	9	2	0	0	1	-100.0	**	.0
BIOLOGY	140	165	203	151	168	142	146	.2	2.8	.6
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	7	2	10	5	0	0	5	-100.0	**	-4.7
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	1	0	0	0	0	0	0	-100.0	**	-100.0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	1	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	**	**	**
MICROBIOLOGY	4	3	7	2	2	0	3	-100.0	**	-4.0
NUTRITION	20	16	16	19	29	23	22	2.4	-4.3	1.4
PATHOLOGY	0	0	0	0	0	1	0	**	-100.0	**
PHARMACOLOGY	0	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0	0
ZOOLOGY	0	1	0	1	0	0	0	**	**	**
BIOSCIENCES, N.E.C.	6	4	4	17	52	49	30	41.9	-38.8	25.8
HEALTH SCIENCES	237	306	348	390	334	328	233	5.6	-29.0	-.2
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	1	1	0	**	-100.0	**
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	44	62	101	104	154	130	124	19.8	-4.6	16.0
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	3	11	11	0	1	1	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	4	2	0	1	0	4	**	**	**
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	121	163	86	112	75	78	46	-7.1	-41.0	-12.9
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	3	3	9	0	16	12	18	26.0	50.0	29.2
CLINICAL MEDICINE, N.E.C.	0	1	1	0	5	3	4	**	33.3	**
HEALTH RELATED, N.E.C.	69	70	138	163	82	103	36	6.9	-65.0	-8.9
PSYCHOLOGY	235	325	165	201	160	131	161	-9.3	22.9	-5.3
SOCIAL SCIENCES	845	1,067	572	439	234	263	268	-17.7	1.9	-15.1
AGRICULTURAL ECONOMICS	0	0	1	25	16	9	25	**	177.8	**
ANTHROPOLOGY	18	21	16	1	1	1	1	-38.2	.0	-33.8
ECONOMICS (EXCEPT AGRICULTURAL)	31	25	2	3	7	6	10	-23.9	66.7	-14.9
GEOGRAPHY	16	3	8	14	5	0	1	-100.0	**	-32.7
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	3	1	0	0	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	253	267	151	166	71	100	106	-14.3	6.0	-11.7
SOCIOLOGY	81	23	6	18	4	4	5	-39.4	25.0	-32.8
SOCIOLOGY/ANTHROPOLOGY	22	11	15	9	0	0	0	-100.0	**	-100.0
SOCIAL SCIENCES, N.E.C.	421	716	373	203	130	143	120	-16.5	-16.1	-16.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-12. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY INSTITUTIONAL SOURCES IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	3,530	3,805	3,[illegible]	3,799	3,774	4,241	4,934	3.1	16.3	4.9
ENGINEERING	81	126	255	226	266	400	360	30.5	-10.0	23.8
AEROSPACE	0	0	0	0	0	1	0	**	-100.0	**
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	1	5	1	0	2	**	**	**
CHEMICAL	6	7	22	18	5	20	19	22.2	-5.0	17.9
CIVIL	11	29	39	44	32	39	32	23.5	-17.9	16.5
ELECTRICAL	7	26	33	36	83	60	69	43.1	15.0	38.7
ENGINEERING SCIENCE	1	4	3	5	0	12	11	51.3	-8.3	40.9
INDUSTRIAL	23	22	54	28	17	66	48	19.2	-27.3	11.1
MECHANICAL	9	17	20	37	19	45	45	30.8	.0	25.8
METALLURGICAL/MATERIALS	1	1	3	4	4	5	7	30.8	40.0	32.0
MINING	3	3	2	2	4	6	11	12.2	83.3	20.4
NUCLEAR	0	2	0	0	0	0	0	**	**	**
PETROLEUM	0	0	1	1	3	5	11	**	120.0	**
ENGINEERING, N.E.C.	20	15	77	46	98	141	105	38.5	-25.5	26.7
PHYSICAL SCIENCES	397	413	432	418	408	420	446	.9	6.2	1.7
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	258	287	293	312	317	325	339	3.9	4.3	4.0
PHYSICS	124	108	130	99	82	77	90	-7.6	16.9	-4.5
PHYSICAL SCIENCES, N.E.C.	15	18	9	7	9	18	17	3.1	-5.6	1.8
ENVIRONMENTAL SCIENCES	153	152	163	175	142	157	197	.4	25.5	3.7
ATMOSPHERIC SCIENCES	0	2	1	1	1	0	1	**	**	**
GEOSCIENCES	87	88	80	88	83	67	106	-4.3	58.2	2.9
OCEANOGRAPHY	11	13	14	16	17	15	23	5.3	53.3	11.1
ENVIRONMENTAL SCIENCES, N.E.C.	55	49	68	70	41	75	67	5.3	-10.7	2.9
MATHEMATICAL/COMPUTER SCIENCES	353	303	393	373	352	477	525	5.1	10.1	5.8
COMPUTER SCIENCE	87	41	148	97	80	145	144	8.9	-.7	7.5
MATHEMATICS AND APPLIED MATHEMATICS	266	260	236	272	268	324	377	3.3	16.4	5.1
STATISTICS	0	2	9	4	4	8	4	**	-50.0	**
LIFE SCIENCES	1,236	1,237	1,219	1,188	1,161	1,285	1,399	.7	8.9	1.8
AGRICULTURAL SCIENCES	29	52	53	43	39	70	69	15.8	-1.4	13.2
BIOLOGICAL SCIENCES	1,032	942	900	834	849	814	894	-3.9	9.8	-2.0
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	25	21	24	20	0	17	12	-6.2	-29.4	-10.0
BIOLOGY	894	821	812	696	767	692	756	-4.2	9.2	-2.4
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	28	14	12	11	10	9	9	-17.2	.0	-15.0
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	7	7	15	7	4	5	8	-5.5	60.0	1.9
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	12	16	19	17	**	-10.5	**
MICROBIOLOGY	34	29	2	25	9	10	5	-18.5	-50.0	-24.0
NUTRITION	17	15	9	11	3	11	19	-7.0	72.7	1.6
PATHOLOGY	0	0	0	2	1	3	2	**	-33.3	**
PHARMACOLOGY	0	1	1	1	1	1	0	**	-100.0	**
PHYSIOLOGY	2	3	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	18	22	20	27	17	15	22	-3.0	46.7	2.9
BIOSCIENCES, N.E.C.	7	9	5	22	21	32	44	28.8	37.5	30.0
HEALTH SCIENCES	175	243	266	311	273	401	436	14.8	8.7	13.9
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	2	0	0	**	**	**
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	4	4	6	7	14	**	100.0	**
NURSING	11	19	17	30	20	41	37	24.5	-9.8	18.9
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	4	2	1	0	7	6	**	-14.3	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	4	2	3	4	3	6	**	100.0	**
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	132	176	180	164	165	204	210	7.5	2.9	6.9
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	2	3	1	0	0	0	0	-100.0	**	-100.0
CLINICAL MEDICINE, N.E.C.	0	2	2	17	19	26	25	**	-3.8	**
HEALTH RELATED, N.E.C.	30	35	58	92	57	113	138	24.7	22.1	24.4
PSYCHOLOGY	681	879	740	704	815	798	1,054	2.7	32.1	6.4
SOCIAL SCIENCES	629	695	663	715	630	705	953	1.9	35.2	6.1
AGRICULTURAL ECONOMICS	5	6	2	0	1	4	0	-3.7	-100.0	-100.0
ANTHROPOLOGY	23	16	21	34	44	21	21	-1.5	.0	-1.3
ECONOMICS (EXCEPT AGRICULTURAL)	59	63	54	45	47	64	90	1.4	40.6	6.2
GEOGRAPHY	76	94	62	77	66	63	81	-3.1	28.6	.9
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	5	12	8	8	3	1	24	-23.5	2300.0	25.1
POLITICAL SCIENCE	185	200	201	243	224	300	329	8.4	9.7	8.6
SOCIOLOGY	74	92	109	94	96	82	91	1.7	11.0	3.0
SOCIOLOGY/ANTHROPOLOGY	29	23	12	13	17	13	12	-12.5	-7.7	-11.8
SOCIAL SCIENCES, N.E.C.	173	189	194	201	152	157	305	-1.6	94.3	8.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-13. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY OTHER OUTSIDE SOURCES IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	653	838	956	780	829	881	917	5.1	4.1	5.0
ENGINEERING	44	54	134	150	270	219	265	30.7	21.0	29.2
AEROSPACE	3	0	1	0	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	2	0	0	4	0	**	-100.0	**
CHEMICAL	4	13	8	12	56	44	33	49.1	-25.0	35.2
CIVIL	9	2	20	34	68	45	39	30.8	-13.3	23.3
ELECTRICAL	7	24	32	52	62	36	71	31.4	97.2	39.2
ENGINEERING SCIENCE	0	2	2	1	0	2	1	**	-50.0	**
INDUSTRIAL	5	1	28	2	8	18	20	23.8	11.1	21.9
MECHANICAL	1	2	10	28	33	11	27	49.1	145.5	60.1
METALLURGICAL/MATERIALS	1	0	4	0	5	4	3	26.0	-25.0	17.0
MINING	2	0	1	3	6	4	1	12.2	-75.0	-9.4
NUCLEAR	0	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	9	0	1	2	**	100.0	**
ENGINEERING, N.E.C.	12	10	26	9	32	50	68	26.9	36.0	28.1
PHYSICAL SCIENCES	27	47	38	35	55	45	17	8.9	-62.2	-6.4
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	9	44	31	18	55	42	17	29.3	-59.5	9.5
PHYSICS	16	3	5	5	0	3	0	-24.3	-100.0	-100.0
PHYSICAL SCIENCES, N.E.C.	2	0	2	12	0	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES	24	28	33	47	44	21	37	-2.2	76.2	6.4
ATMOSPHERIC SCIENCES	0	0	0	0	1	5	3	**	-40.0	**
GEOSCIENCES	4	13	13	10	8	6	12	7.0	100.0	17.0
OCEANOGRAPHY	5	0	1	11	0	0	8	-100.0	**	6.9
ENVIRONMENTAL SCIENCES, N.E.C.	15	15	19	26	35	10	14	-6.5	40.0	-1.0
MATHEMATICAL/COMPUTER SCIENCES	44	39	52	38	65	137	149	20.8	8.8	19.0
COMPUTER SCIENCE	29	32	45	36	58	129	145	28.2	12.4	25.8
MATHEMATICS AND APPLIED MATHEMATICS	13	7	6	2	7	8	4	-7.8	-50.0	-15.5
STATISTICS	2	0	1	0	0	0	0	-100.0	**	-100.0
LIFE SCIENCES	194	177	189	204	166	203	170	.8	-16.2	-1.9
AGRICULTURAL SCIENCES	6	4	18	47	45	38	21	36.0	-44.7	19.6
BIOLOGICAL SCIENCES	90	76	80	96	74	79	71	-2.1	-10.1	-3.1
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	0	0	5	5	0	0	0	**	**	**
BIOLOGY	58	50	55	71	60	64	46	1.7	-28.1	-3.9
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	3	1	0	13	3	4	4	4.9	0	4.2
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	15	19	16	0	2	0	0	-100.0	**	-100.0
MICROBIOLOGY	0	0	0	0	0	0	5	**	**	**
NUTRITION	2	6	4	2	4	8	14	26.0	75.0	32.0
PATHOLOGY	0	0	0	0	0	0	0	0	0	0
PHARMACOLOGY	0	0	0	1	0	0	0	**	**	**
PHYSIOLOGY	0	0	0	0	0	0	0	0	0	0
ZOOLOGY	6	0	0	0	3	2	1	-16.7	-50.0	-22.6
BIOSCIENCES, N.E.C.	6	0	0	4	2	1	1	-25.8	.0	-22.6
HEALTH SCIENCES	98	97	91	61	47	86	78	-2.2	-9.3	-3.2
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	3	3	0	0	0	**	**	**
NURSING	2	8	5	6	6	28	24	55.2	-14.3	42.6
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	1	0	0	0	1	2	**	100.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	5	3	5	0	0	0	2	-100.0	**	-12.3
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	5	33	52	25	20	35	8	38.3	-77.1	6.9
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	1	0	0	6	2	4	**	100.0	**
CLINICAL MEDICINE, N.E.C.	2	15	1	15	10	1	8	-10.9	700.0	21.9
HEALTH RELATED, N.E.C.	84	36	25	12	5	19	30	-21.9	57.9	-13.7
PSYCHOLOGY	84	185	132	77	26	20	39	-21.3	95.0	-10.4
SOCIAL SCIENCES	236	308	378	229	203	236	240	.0	1.7	.2
AGRICULTURAL ECONOMICS	3	0	4	8	0	2	10	-6.5	400.0	18.8
ANTHROPOLOGY	6	3	0	0	1	0	0	-100.0	**	-100.0
ECONOMICS (EXCEPT AGRICULTURAL)	40	36	40	68	30	56	39	5.8	-30.4	-.4
GEOGRAPHY	11	1	0	3	11	20	18	10.5	-10.0	7.3
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	0	0	0	7	0	0	1	**	**	**
POLITICAL SCIENCE	70	99	73	64	100	113	102	8.3	-9.7	5.5
SOCIOLOGY	5	9	18	3	2	6	3	3.1	-50.0	-7.0
SOCIOLOGY/ANTHROPOLOGY	1	0	0	0	0	0	0	-100.0	**	-100.0
SOCIAL SCIENCES, N.E.C.	100	160	243	76	59	39	67	-14.5	71.8	-5.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-14. — SELF-SUPPORTED FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	10,779	11,883	12,570	12,466	12,967	11,958	13,094	1.7	9.5	2.8
ENGINEERING	501	610	606	708	853	843	968	9.1	14.8	9.9
AEROSPACE	8	9	0	3	3	2	15	-20.6	650.0	9.4
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	2	0	16	12	13	19	17	45.5	-10.5	35.8
CHEMICAL	23	10	21	26	7	20	27	-2.3	35.0	2.3
CIVIL	84	151	183	140	292	249	206	19.9	-17.3	12.7
ELECTRICAL	99	121	120	148	135	134	180	14.7	34.3	17.3
ENGINEERING SCIENCE	3	2	1	7	14	11	11	24.2	.0	20.4
INDUSTRIAL	61	101	35	158	183	150	139	16.2	-7.3	12.5
MECHANICAL	38	76	61	46	33	81	74	13.4	-8.6	10.0
METALLURGICAL/MATERIALS	4	5	3	11	2	5	4	3.8	-20.0	.0
MINING	1	1	1	1	4	7	9	38.3	28.6	36.9
NUCLEAR	0	1	0	0	0	0	0	**	**	**
PETROLEUM	0	0	0	2	0	0	0	**	**	**
ENGINEERING, N.E.C.	218	133	165	154	167	165	286	-4.5	73.3	4.0
PHYSICAL SCIENCES	204	244	190	159	188	176	180	-2.6	2.3	-1.8
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	134	181	124	126	134	119	130	-2.0	9.2	-.4
PHYSICS	41	40	43	26	36	37	26	-1.7	-29.7	-4.3
PHYSICAL SCIENCES, N.E.C.	29	23	23	7	18	20	24	-6.0	20.0	-2.7
ENVIRONMENTAL SCIENCES	326	295	299	409	316	339	346	.7	2.1	.9
ATMOSPHERIC SCIENCES	0	2	0	10	4	1	3	**	200.0	**
GEOSCIENCES	67	69	109	138	80	149	160	14.2	7.4	13.2
OCEANOGRAPHY	19	18	5	3	16	26	24	5.4	-7.7	3.4
ENVIRONMENTAL SCIENCES, N.E.C.	240	206	185	258	216	163	159	-6.2	-2.5	-5.7
MATHEMATICAL/COMPUTER SCIENCES	683	564	843	710	959	1,180	1,307	9.5	10.8	9.7
COMPUTER SCIENCE	321	306	572	480	778	887	1,046	18.5	17.9	18.4
MATHEMATICS AND APPLIED MATHEMATICS	341	245	270	228	181	286	257	-2.9	-10.1	-4.0
STATISTICS	21	13	1	2	0	7	4	-16.7	-42.9	-21.1
LIFE SCIENCES	2,430	2,587	2,643	2,676	3,111	2,553	2,974	.8	16.5	2.9
AGRICULTURAL SCIENCES	186	190	321	256	340	266	314	6.1	18.0	7.8
BIOLOGICAL SCIENCES	1,162	1,164	1,152	984	953	655	749	-9.1	14.4	-6.1
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	20	10	11	5	19	1	13	-39.3	1200.0	-6.0
BIOLOGY	977	900	992	796	759	522	574	-9.9	10.0	-7.3
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	37	21	28	7	19	13	12	-16.0	-7.7	-14.9
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	3	3	3	0	1	**	**	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	17	19	27	36	29	28	26	8.7	-7.1	6.3
MICROBIOLOGY	42	81	12	34	35	8	11	-24.1	37.5	-17.4
NUTRITION	27	72	46	77	58	52	65	11.5	25.0	13.4
PATHOLOGY	3	5	1	4	2	3	3	.0	.0	.0
PHARMACOLOGY	0	0	1	0	0	0	2	**	**	**
PHYSIOLOGY	3	12	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	27	19	9	8	1	1	4	-42.3	300.0	-27.9
BIOSCIENCES, N.E.C.	9	25	22	14	28	27	38	20.1	40.7	22.8
HEALTH SCIENCES	1,082	1,233	1,170	1,436	1,818	1,632	1,911	7.1	17.1	8.5
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	18	22	24	21	**	-12.5	**
DENTISTRY	21	26	0	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	15	15	8	7	0	**	-100.0	**
NURSING	139	239	72	103	222	231	302	8.8	30.7	11.7
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	4	6	3	16	4	6	**	50.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	16	9	24	22	25	24	23	7.0	-4.2	5.3
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	359	411	459	577	703	648	701	10.3	8.2	10.0
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	16	9	2	12	0	8	4	-10.9	-50.0	-18.0
CLINICAL MEDICINE, N.E.C.	2	19	33	39	28	39	37	64.1	-5.1	51.7
HEALTH RELATED, N.E.C.	529	516	559	647	794	647	817	3.4	26.3	6.4
PSYCHOLOGY	3,167	3,055	4,091	4,130	4,180	3,766	4,183	2.9	11.1	4.1
SOCIAL SCIENCES	3,448	4,528	3,898	3,674	3,360	3,101	3,136	-1.8	1.1	-1.4
AGRICULTURAL ECONOMICS	5	12	11	2	6	7	18	5.8	157.1	20.1
ANTHROPOLOGY	96	128	90	105	53	56	52	-8.6	-7.1	-8.4
ECONOMICS (EXCEPT AGRICULTURAL)	246	220	140	210	214	266	217	1.3	-18.4	-1.8
GEOGRAPHY	138	98	114	104	105	79	87	-8.9	10.1	-6.4
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	42	26	13	11	11	11	34	-20.0	209.1	-3.0
POLITICAL SCIENCE	1,073	1,424	1,137	1,034	1,231	1,089	1,175	.2	7.9	1.3
SOCIOLOGY	305	315	335	231	204	140	134	-12.2	-4.3	-11.1
SOCIOLOGY/ANTHROPOLOGY	56	46	28	34	34	32	63	8.9	96.9	1.7
SOCIAL SCIENCES, N.E.C.	1,507	2,259	2,030	1,943	1,502	1,421	1,356	-1.0	-4.6	-1.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-19. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY TYPE AND SOURCE OF MAJOR SUPPORT: 1979-83

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER					AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1983	1979-82	1982-83
TOTAL, ALL TYPES:							
TOTAL, ALL SOURCES	18,970	18,624	18,803	18,358	20,154	-1.1	9.8
FEDERAL, TOTAL	1,579	1,579	1,233	1,277	1,209	-6.8	-5.3
DEPT OF DEFENSE	40	47	49	103	146	37.1	41.7
DEPT OF HHS, TOTAL	627	578	369	351	283	-17.6	-19.4
NIH	171	209	158	159	154	-2.4	-3.1
OTHER HHS	456	369	211	192	129	-25.0	-32.8
NSF	101	109	98	87	83	-4.9	-29.9
ALL OTHER FEDERAL	811	845	717	736	719	-3.2	-2.3
INSTITUTIONAL SUPPORT	3,865	3,799	3,774	4,242	4,934	3.2	16.3
OTHER OUTSIDE SUPPORT, TOTAL	956	780	829	881	917	-2.7	4.1
ALL OTHER U.S.	665	435	465	504	557	-8.8	10.5
FOREIGN	291	345	364	377	360	9.0	-4.5
SELF-SUPPORT	12,570	12,466	12,967	11,958	13,094	-1.6	9.5
FELLOWSHIPS AND TRAINEESHIPS:							
TOTAL, ALL SOURCES	1,234	1,157	1,039	1,074	1,058	-4.5	-1.5
FEDERAL, TOTAL	638	679	529	489	422	-8.5	-13.7
DEPT OF DEFENSE	2	5	8	4	5	26.0	25.0
DEPT OF HHS, TOTAL	476	392	294	232	156	-21.3	-32.8
NIH	78	103	89	77	46	-.4	-40.3
OTHER HHS	398	289	205	155	110	-27.0	-29.0
NSF	47	70	38	24	18	-20.1	-25.0
ALL OTHER FEDERAL	113	212	189	229	243	26.5	6.1
INSTITUTIONAL SUPPORT	377	367	307	418	434	3.5	3.8
OTHER OUTSIDE SUPPORT, TOTAL	219	111	203	167	202	-8.6	21.0
ALL OTHER U.S.	175	70	75	81	98	-22.6	21.0
FOREIGN	44	41	128	86	104	25.0	20.9
SELF-SUPPORT	0	0	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:							
TOTAL, ALL SOURCES	1,015	1,173	1,198	1,199	1,472	5.7	22.8
FEDERAL, TOTAL	288	329	267	320	336	3.6	5.0
DEPT OF DEFENSE	7	10	17	9	15	8.7	66.7
DEPT OF HHS, TOTAL	80	94	70	80	89	.0	11.2
NIH	75	88	66	75	84	.0	12.0
OTHER HHS	5	6	4	5	5	.0	.0
NSF	43	26	24	30	41	-11.3	36.7
ALL OTHER FEDERAL	158	199	156	201	191	8.4	-5.0
INSTITUTIONAL SUPPORT	662	698	845	784	1,041	5.8	32.8
OTHER OUTSIDE SUPPORT, TOTAL	65	146	86	95	95	13.5	.0
ALL OTHER U.S.	65	129	76	88	93	10.6	5.7
FOREIGN	0	17	10	7	2	**	-71.4
SELF-SUPPORT	0	0	0	0	0	0	0
TEACHING ASSISTANTSHIPS:							
TOTAL, ALL SOURCES	2,445	2,296	2,223	2,584	2,649	1.9	2.5
FEDERAL, TOTAL	60	77	73	49	36	-6.5	-26.5
DEPT OF DEFENSE	0	0	0	0	0	0	0
DEPT OF HHS, TOTAL	11	13	0	8	1	-10.1	-87.5
NIH	7	1	0	0	1	-100.0	**
OTHER HHS	4	12	0	8	0	26.0	-100.0
NSF	9	7	3	3	0	-30.7	-100.0
ALL OTHER FEDERAL	40	57	70	38	35	-1.7	-7.9
INSTITUTIONAL SUPPORT	2,352	2,187	2,116	2,485	2,587	1.9	4.1
OTHER OUTSIDE SUPPORT, TOTAL	33	32	34	50	26	14.9	-48.0
ALL OTHER U.S.	33	32	34	50	26	14.9	-48.0
FOREIGN	0	0	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0	0	0
OTHER TYPES OF SUPPORT:							
TOTAL, ALL SOURCES	14,276	13,998	14,343	13,501	14,975	-1.8	10.9
FEDERAL, TOTAL	593	494	364	419	415	-10.9	-1.0
DEPT OF DEFENSE	31	32	24	90	126	42.7	40.0
DEPT OF HHS, TOTAL	60	79	5	31	37	-19.8	19.4
NIH	11	17	3	7	23	-14.0	228.6
OTHER HHS	49	62	2	24	14	-21.2	-41.7
NSF	2	6	33	30	2	146.6	-93.3
ALL OTHER FEDERAL	500	377	302	268	250	-18.8	-6.7
INSTITUTIONAL SUPPORT	474	547	506	555	872	5.4	57.1
OTHER OUTSIDE SUPPORT, TOTAL	639	491	506	569	594	-3.8	4.4
ALL OTHER U.S.	392	204	280	285	340	-10.1	19.3
FOREIGN	247	287	226	284	254	4.8	-10.6
SELF-SUPPORT	12,570	12,466	12,967	11,958	13,094	-1.6	9.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-16. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1976-77 AND 1979-83

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL INSTITUTIONS	16,759	18,711	18,970	18,624	18,803	18,358	20,154	1.5	9.8	2.7
NEW ENGLAND	1,066	1,309	1,285	1,383	736	834	929	-4.0	11.4	-1.9
CONNECTICUT	169	242	365	461	438	489	472	19.4	-3.7	15.8
MAINE	0	0	0	0	0	0	0	**	**	**
MASSACHUSETTS	324	449	301	293	268	257	321	-3.8	24.9	-.1
NEW HAMPSHIRE	3	0	2	0	0	2	2	-6.5	.0	-5.6
RHODE ISLAND	12	26	36	24	24	81	95	37.5	17.3	34.4
VERMONT	558	592	581	605	6	5	40	-54.4	700.0	-31.4
MIDDLE ATLANTIC	2,346	2,666	2,272	1,576	1,771	1,850	2,026	-3.9	9.5	-2.1
NEW JERSEY	452	443	118	94	168	125	121	-19.3	-3.2	-17.2
NEW YORK	1,541	1,750	1,702	969	1,022	1,062	1,155	-6.0	8.8	-4.0
PENNSYLVANIA	353	473	452	513	581	663	750	11.1	13.1	11.4
EAST NORTH CENTRAL	2,249	2,117	2,386	2,850	2,905	3,152	3,389	5.8	7.5	6.0
ILLINOIS	1,066	1,156	1,105	1,237	1,165	1,151	1,247	1.3	8.3	2.3
INDIANA	64	49	59	46	87	121	130	11.2	7.4	10.7
MICHIGAN	518	206	193	253	272	239	280	-12.1	17.2	-8.4
OHIO	299	368	697	949	966	1,024	1,113	22.8	8.7	20.7
WISCONSIN	302	338	332	365	415	617	619	12.4	.3	10.8
WEST NORTH CENTRAL	928	915	946	941	832	918	1,039	-.2	13.2	1.6
IOWA	172	132	37	37	39	34	39	-23.7	14.7	-19.1
KANSAS	316	380	341	303	301	293	299	-1.3	2.0	-.8
MINNESOTA	218	169	324	312	286	308	403	5.9	30.8	9.2
MISSOURI	219	230	239	278	196	275	288	3.9	4.7	4.0
NEBRASKA	3	4	5	11	10	8	10	17.8	25.0	18.8
NORTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH ATLANTIC	2,710	2,599	1,975	1,719	1,717	1,685	1,750	-7.6	3.9	-6.1
DELAWARE	0	0	0	0	0	0	0	**	**	**
DISTRICT OF COLUMBIA	67	61	59	60	72	73	75	1.4	2.7	1.6
FLORIDA	970	990	705	462	421	376	362	-14.6	-3.7	-13.1
GEORGIA	447	450	198	185	199	171	128	-14.8	-25.1	-16.4
MARYLAND	187	179	353	340	342	329	342	9.9	4.0	9.0
NORTH CAROLINA	442	442	277	395	352	400	474	-1.7	18.5	1.0
SOUTH CAROLINA	55	46	47	26	37	51	66	-1.3	29.4	2.6
VIRGINIA	410	332	332	251	257	242	253	-8.4	4.5	-6.7
WEST VIRGINIA	132	99	4	0	37	43	50	-17.1	16.3	-12.9
EAST SOUTH CENTRAL	819	957	1,116	906	976	1,047	1,243	4.2	18.7	6.1
ALABAMA	186	206	292	277	274	362	423	11.7	16.9	12.5
KENTUCKY	232	386	328	323	305	310	379	4.9	22.3	7.3
MISSISSIPPI	215	175	150	120	102	107	141	-11.0	31.8	-5.8
TENNESSEE	186	190	346	186	295	268	300	6.3	11.9	7.1
WEST SOUTH CENTRAL	1,492	1,621	1,935	1,665	1,861	1,921	1,916	4.3	-.3	3.6
ARKANSAS	140	156	154	181	218	264	287	11.2	8.7	10.8
LOUISIANA	197	177	150	142	197	188	195	-.8	3.7	-.1
OKLAHOMA	32	35	63	64	46	50	34	7.7	-32.0	.9
TEXAS	1,123	1,253	1,568	1,278	1,400	1,419	1,400	4.0	-1.3	3.2
MOUNTAIN	326	419	428	325	340	346	419	.9	21.1	3.6
ARIZONA	0	0	0	0	0	0	0	**	**	**
COLORADO	27	11	24	25	24	21	30	-4.1	42.9	1.5
IDAHO	0	0	0	0	0	0	0	**	**	**
MONTANA	24	21	29	38	43	51	65	13.4	27.5	15.3
NEVADA	161	249	108	72	92	93	167	-8.7	79.6	.5
NEW MEXICO	116	138	267	190	181	181	157	7.7	-13.3	4.4
UTAH	0	0	0	0	0	0	0	**	**	**
WYOMING	0	0	0	0	0	0	0	**	**	**
PACIFIC	4,812	6,051	6,609	7,233	7,650	6,601	7,431	5.4	12.6	6.4
ALASKA	4	38	37	52	52	50	57	52.3	14.0	46.2
CALIFORNIA	4,402	5,513	5,962	6,650	6,939	5,676	6,512	4.3	14.7	5.8
HAWAII	0	0	0	0	0	0	0	**	**	**
OREGON	80	57	56	50	156	156	163	11.8	4.5	10.7
WASHINGTON	326	443	554	481	503	719	699	14.1	-2.8	11.5
OUTLYING AREAS	9	57	18	26	15	4	12	-12.6	200.0	4.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-17. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH U.S. CITIZENSHIP IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-83 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1983	1977-82	1982-83	1977-83
TOTAL, ALL FIELDS	17,119	16,833	16,565	16,422	15,737	17,263	-1.7	9.7	.1
ENGINEERING	576	600	672	827	941	1,037	10.3	10.2	10.3
AEROSPACE	6	0	0	0	1	10	-30.1	900.0	8.9
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	19	17	13	23	19	**	-17.4	**
CHEMICAL	16	23	29	32	64	41	32.0	-35.9	17.0
CIVIL	178	172	153	256	228	172	5.1	-24.6	-.6
ELECTRICAL	111	81	136	123	153	172	6.6	12.4	7.6
ENGINEERING SCIENCE	9	6	15	12	21	21	18.5	.0	15.2
INDUSTRIAL	75	86	110	116	145	148	14.1	2.1	12.0
MECHANICAL	72	46	61	35	83	80	2.9	-3.6	1.8
METALLURGICAL/MATERIALS	8	8	11	12	17	10	16.3	-41.2	3.8
MINING	7	5	4	12	17	22	19.4	29.4	21.0
NUCLEAR	1	0	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	2	9	**	350.0	**
ENGINEERING, N.E.C.	93	154	136	216	187	333	15.0	78.1	23.7
PHYSICAL SCIENCES	635	567	506	514	517	530	-4.0	2.5	-3.0
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	455	405	389	404	407	423	-2.2	3.9	-1.2
PHYSICS	140	136	95	86	77	73	-11.3	-5.2	-10.3
PHYSICAL SCIENCES, N.E.C.	40	26	22	24	33	34	-3.8	3.0	-2.7
ENVIRONMENTAL SCIENCES	481	472	640	508	520	586	1.6	12.7	3.3
ATMOSPHERIC SCIENCES	4	3	12	6	7	5	11.8	-28.6	3.8
GEOSCIENCES	179	195	252	179	226	280	4.8	23.9	7.7
OCEANOGRAPHY	31	23	38	32	40	64	5.2	60.0	12.8
ENVIRONMENTAL SCIENCES, N.E.C.	267	251	338	291	247	237	-1.5	-4.0	-2.0
MATHEMATICAL/COMPUTER SCIENCES	783	985	926	981	1,326	1,463	11.1	10.3	11.0
COMPUTER SCIENCE	306	550	491	627	844	969	22.5	14.8	21.2
MATHEMATICS AND APPLIED MATHEMATICS	463	425	429	350	467	487	.2	4.3	.8
STATISTICS	14	10	6	4	15	7	1.4	-53.3	-10.9
LIFE SCIENCES	4,258	4,237	4,317	4,674	4,179	4,558	-.4	9.1	1.1
AGRICULTURAL SCIENCES	230	315	322	359	289	345	4.7	19.4	7.0
BIOLOGICAL SCIENCES	2,192	2,134	1,869	1,913	1,595	1,732	-6.2	8.6	-3.8
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	20	42	20	14	14	18	-6.9	28.6	-1.7
BIOLOGY	1,823	1,880	1,566	1,604	1,311	1,397	-6.4	6.6	-4.3
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	34	40	20	28	20	20	-10.1	.0	-8.5
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	7	15	10	7	5	8	-6.5	60.0	2.3
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	36	43	48	45	44	42	4.1	-4.5	2.6
MICROBIOLOGY	103	15	49	38	14	16	-32.9	14.3	-26.7
NUTRITION	78	51	76	60	74	101	-1.0	36.5	4.4
PATHOLOGY	5	1	5	3	5	5	.0	.0	.0
PHARMACOLOGY	1	2	1	1	1	1	.0	.0	.0
PHYSIOLOGY	15	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	40	29	31	19	16	25	-16.7	56.3	-7.5
BIOSCIENCES, N.E.C.	30	16	43	94	91	99	24.8	8.8	22.0
HEALTH SCIENCES	1,836	1,788	2,126	2,402	2,295	2,481	4.6	8.1	5.1
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0
DENTISTRY	26	0	18	25	25	21	**	-16.0	**
ENDOCRINOLOGY	0	0	0	0	0	0	-100.0	**	-100.0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0
NURSING	0	22	22	13	12	14	**	16.7	**
OBSTETRICS/GYNECOLOGY	327	191	235	397	425	477	5.4	12.2	6.5
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	0	0	0	0	0	0	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	10	16	12	13	7	9	-6.9	28.6	-1.7
PSYCHIATRY	16	24	19	28	27	30	11.0	11.1	11.0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	0	0	0	0	0	0	0	0	0
SURGERY	774	756	859	948	939	942	3.9	.3	3.3
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	13	10	10	11	14	13	1.5	-7.1	.0
HEALTH RELATED, N.E.C.	31	37	71	59	55	56	12.2	1.8	10.4
	639	732	880	908	791	919	4.4	16.2	6.2
PSYCHOLOGY	4,324	4,948	4,956	5,009	4,523	5,251	.9	16.1	3.3
SOCIAL SCIENCES	6,062	5,024	4,548	3,909	3,731	3,838	-9.3	2.9	-7.3
AGRICULTURAL ECONOMICS	5	8	18	10	10	13	14.9	30.0	17.3
ANTHROPOLOGY	163	114	133	73	71	68	-15.3	-4.2	-13.6
ECONOMICS (EXCEPT AGRICULTURAL)	194	123	182	148	203	179	.9	-11.8	-1.3
GEOGRAPHY	185	168	169	161	146	168	-4.6	15.1	-1.6
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	32	16	23	13	11	46	-19.2	318.2	6.2
POLITICAL SCIENCE	1,775	1,380	1,328	1,461	1,398	1,396	-4.7	-.1	-3.9
SOCIOLOGY	397	443	315	280	211	204	-11.9	-3.3	-10.5
SOCIOLOGY/ANTHROPOLOGY	77	52	53	48	43	73	-11.0	69.8	-.9
SOCIAL SCIENCES, N.E.C.	3,234	2,720	2,327	1,715	1,638	1,691	-12.7	3.2	-10.2

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-18 — FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-83 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1983	1977-82	1982-83	1977-83
TOTAL, ALL FIELDS	1,992	2,137	2,059	2,381	2,621	2,891	10.5	10.3	10.5
ENGINEERING	314	449	496	613	611	640	14.2	4.7	12.6
AEROSPACE	3	1	3	3	2	5	-7.8	150.0	8.9
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	1	0	0	**	**	**
CHEMICAL	14	28	30	36	20	38	7.4	90.0	18.1
CIVIL	44	99	80	144	113	123	20.8	.0	17.0
ELECTRICAL	81	107	134	171	103	177	4.9	71.8	13.9
ENGINEERING SCIENCE	0	2	2	4	4	4	**	.0	**
INDUSTRIAL	56	31	86	94	96	65	11.4	-32.3	2.5
MECHANICAL	36	45	50	50	56	72	9.2	28.6	12.2
METALLURGICAL/MATERIALS	2	7	7	6	8	8	32.0	.0	26.0
MINING	0	1	3	5	5	2	**	-60.0	**
NUCLEAR	4	0	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	1	12	3	4	4	**	.0	**
ENGINEERING, N.E.C.	74	127	87	96	200	152	22.0	-24.0	12.7
PHYSICAL SCIENCES	123	171	158	194	193	191	9.4	-1.0	7.6
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	99	114	115	153	136	125	6.6	-8.1	4.0
PHYSICS	19	48	39	37	52	59	22.3	13.5	20.8
PHYSICAL SCIENCES, N.E.C.	5	9	4	4	5	7	.0	40.0	5.8
ENVIRONMENTAL SCIENCES	56	81	64	39	43	37	-5.1	-14.0	-6.7
ATMOSPHERIC SCIENCES	0	0	0	0	1	2	**	100.0	**
GEOSCIENCES	11	21	6	8	10	15	-1.9	50.0	5.3
OCEANOGRAPHY	0	0	0	1	2	1	**	-50.0	**
ENVIRONMENTAL SCIENCES, N.E.C.	45	60	58	30	30	19	-7.8	-36.7	-13.4
MATHEMATICAL/COMPUTER SCIENCES	176	327	295	473	586	616	27.2	5.1	23.2
COMPUTER SCIENCE	102	230	196	353	419	451	32.7	7.6	28.1
MATHEMATICS AND APPLIED MATHEMATICS	72	95	99	120	167	164	18.3	-1.8	14.7
STATISTICS	2	2	0	0	0	1	-100.0	**	-10.9
LIFE SCIENCES	267	442	381	372	422	462	9.6	9.5	9.6
AGRICULTURAL SCIENCES	41	108	67	87	102	94	20.0	-7.8	14.8
BIOLOGICAL SCIENCES	183	247	242	215	168	191	-1.7	13.7	.7
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	13	7	12	5	4	8	-21.0	100.0	-7.8
BIOLOGY	113	182	148	150	109	125	-.7	14.7	1.7
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	4	10	16	4	6	10	8.4	66.7	16.5
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	3	0	1	0	1	**	**	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	2	0	0	2	3	3	8.4	.0	7.0
MICROBIOLOGY	10	6	12	8	4	8	-16.7	100.0	-3.7
NUTRITION	31	24	33	34	20	19	-8.4	-5.0	-7.8
PATHOLOGY	0	0	1	0	2	0	**	-100.0	**
PHARMACOLOGY	0	0	1	0	0	1	**	**	**
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	2	0	5	2	2	2	.0	.0	.0
BIOSCIENCES, N.E.C.	8	15	14	9	18	14	17.6	-22.2	9.8
HEALTH SCIENCES	43	87	72	70	152	177	28.7	16.4	26.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	1	2	0	**	-100.0	**
NURSING	1	4	8	5	5	10	38.0	100.0	46.8
OBSTETRICS/GYNECOLOGY	0	0	2	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	2	3	3	3	6	6	24.6	.0	20.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4	9	6	2	0	5	-100.0	**	3.8
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	9	21	19	15	26	23	23.6	-11.5	16.9
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	3	2	2	11	8	13	21.7	62.5	27.7
CLINICAL MEDICINE, N.E.C.	6	0	0	3	14	18	18.5	28.6	20.1
HEALTH RELATED, N.E.C.	18	48	34	30	91	102	38.3	12.1	33.5
PSYCHOLOGY	120	180	156	172	192	186	9.9	-3.1	7.6
SOCIAL SCIENCES	536	487	509	518	574	759	1.4	32.2	6.0
AGRICULTURAL ECONOMICS	13	10	17	13	12	40	-1.6	233.3	20.6
ANTHROPOLOGY	5	13	7	6	7	6	7.0	-14.3	3.1
ECONOMICS (EXCEPT AGRICULTURAL)	150	113	144	150	189	177	4.7	-6.3	2.8
GEOGRAPHY	11	16	29	26	16	19	7.8	18.8	9.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	7	5	3	1	1	13	-32.2	1200.0	10.9
POLITICAL SCIENCE	215	182	179	165	204	316	-1.0	54.9	6.6
SOCIOLOGY	42	25	31	26	21	29	-12.9	38.1	-6.0
SOCIOLOGY/ANTHROPOLOGY	3	3	3	3	2	2	-7.8	.0	-6.5
SOCIAL SCIENCES, N.E.C.	99	120	96	128	122	157	6.3	28.7	9.7

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-19. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	29,201	33,043	33,648	30,807	32,869	33,828	35,134	2.5	3.9	2.7
ENGINEERING	3,127	3,829	4,061	3,773	4,666	4,864	5,067	7.6	4.2	7.1
AEROSPACE	16	13	4	4	4	5	17	-17.6	240.0	.9
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	16	30	26	31	31	29	40	10.4	37.9	14.0
CHEMICAL	101	100	134	97	164	176	132	9.7	-25.0	3.9
CIVIL	548	690	665	695	814	651	615	2.9	-5.5	1.7
ELECTRICAL	631	858	783	817	999	1,179	1,319	11.0	11.9	11.1
ENGINEERING SCIENCE	34	108	157	146	196	265	275	40.8	3.8	34.8
INDUSTRIAL	559	657	483	478	628	621	695	1.8	11.9	3.2
MECHANICAL	387	482	606	622	620	561	670	6.4	19.4	8.2
METALLURGICAL/MATERIALS	36	59	85	53	60	65	91	11.5	31.9	14.2
MINING	0	0	0	0	1	3	2	**	-33.3	**
NUCLEAR	12	14	4	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	787	818	1,114	830	1,149	1,305	1,211	8.8	-7.2	6.4
PHYSICAL SCIENCES	1,143	1,281	1,038	895	894	990	1,026	-2.4	3.6	-1.5
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	820	863	696	613	646	694	736	-2.7	6.1	-1.5
PHYSICS	239	301	196	185	163	159	164	-6.6	3.1	-5.2
PHYSICAL SCIENCES, N.E.C.	84	117	146	97	185	137	126	8.5	-8.0	6.0
ENVIRONMENTAL SCIENCES	746	820	726	709	812	854	719	2.3	-15.8	-.5
ATMOSPHERIC SCIENCES	0	6	9	7	3	4	5	**	25.0	**
GEOSCIENCES	309	366	343	285	334	339	340	1.6	.3	1.4
OCEANOGRAPHY	2	13	15	107	116	115	91	96.5	-20.9	72.5
ENVIRONMENTAL SCIENCES, N.E.C.	435	435	359	310	359	396	283	-1.6	-28.5	-6.0
MATHEMATICAL/COMPUTER SCIENCES	2,865	3,092	2,773	2,708	3,753	4,765	5,813	8.8	22.0	10.6
COMPUTER SCIENCE	1,195	1,468	1,422	1,507	2,316	2,973	3,901	16.4	31.2	18.4
MATHEMATICS AND APPLIED MATHEMATICS	1,494	1,432	1,162	1,050	1,312	1,664	1,802	1.8	8.3	2.7
STATISTICS	176	192	189	151	125	128	110	-5.2	-14.1	-6.5
LIFE SCIENCES	6,363	7,603	7,686	7,146	7,170	7,585	7,584	3.0	*	2.5
AGRICULTURAL SCIENCES	276	302	352	286	307	346	336	3.8	-2.9	2.8
BIOLOGICAL SCIENCES	3,507	4,024	3,541	3,103	2,868	2,670	2,612	-4.4	-2.2	-4.1
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	97	84	61	30	20	16	14	-25.9	-12.5	-24.2
BIOLOGY	3,020	3,349	2,803	2,496	2,297	2,107	2,046	-5.8	-2.9	-5.4
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	22	6	33	20	9	16	15	-5.2	-6.3	-5.3
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	31	40	92	41	45	28	36	-1.7	28.6	2.2
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	19	14	5	4	3	3	4	-26.5	33.3	-20.0
MICROBIOLOGY	132	166	164	139	135	120	101	-1.6	-15.8	-3.8
NUTRITION	57	112	169	163	140	162	179	19.0	10.5	17.8
PATHOLOGY	28	36	35	33	37	40	38	6.1	-5.0	4.5
PHARMACOLOGY	0	2	6	8	10	10	4	**	-60.0	**
PHYSIOLOGY	53	49	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	8	4	8	0	20	14	13	9.8	-7.1	7.2
BIOSCIENCES, N.E.C.	40	162	165	169	152	154	162	25.2	5.2	22.1
HEALTH SCIENCES	2,580	3,277	3,793	3,757	3,995	4,569	4,636	10.0	1.5	8.7
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	3	8	31	10	**	-67.7	**
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	7	7	0	0	0	**	**	**
NURSING	437	628	1,000	884	1,230	1,527	1,534	23.2	.5	19.6
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	16	10	11	10	10	14	**	40.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	40	79	96	65	66	113	152	18.9	34.5	21.0
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	854	958	1,058	989	1,088	962	1,096	2.0	13.9	3.4
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	7	5	3	3	1	3	0	-13.2	-100.0	-100.0
CLINICAL MEDICINE, N.E.C.	58	140	203	325	299	301	256	31.6	-15.0	23.6
HEALTH RELATED, N.E.C.	1,184	1,451	1,416	1,470	1,293	1,622	1,574	5.4	-3.0	4.2
PSYCHOLOGY	5,212	6,126	6,685	6,140	6,458	6,301	6,602	3.2	4.8	3.4
SOCIAL SCIENCES	9,749	10,292	10,679	9,436	9,116	8,469	8,323	-2.3	-1.7	-2.2
AGRICULTURAL ECONOMICS	4	3	5	7	4	22	5	32.9	-77.3	3.2
ANTHROPOLOGY	273	372	305	259	234	182	171	-6.5	-6.0	-6.5
ECONOMICS (EXCEPT AGRICULTURAL)	561	604	608	575	639	691	791	3.5	14.5	5.0
GEOGRAPHY	476	381	278	283	264	299	246	-7.5	-17.7	-9.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	257	234	116	109	115	117	150	-12.3	28.2	-7.4
POLITICAL SCIENCE	4,645	5,318	5,591	5,258	5,164	4,526	4,182	-.4	-7.6	-1.5
SOCIOLOGY	586	652	489	439	473	361	327	-7.8	-9.4	-8.0
SOCIOLOGY/ANTHROPOLOGY	24	52	43	55	38	46	93	11.5	102.2	21.3
SOCIAL SCIENCES, N.E.C.	2,919	2,676	3,244	2,451	2,185	2,225	2,358	-4.4	6.0	-3.0

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-20. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL ALL FIELDS	19,994	22,714	23,124	20,060	21,976	22,661	22,956	2.1	1.3	2.0
ENGINEERING	1,791	2,192	2,379	2,174	2,816	2,922	2,820	8.5	-3.5	6.7
AEROSPACE	13	6	0	0	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	18	21	21	15	23	**	53.3	**
CHEMICAL	47	63	85	41	98	112	74	15.6	-33.9	6.7
CIVIL	452	565	547	581	700	537	488	2.9	-9.1	1.1
ELECTRICAL	261	427	357	394	491	623	564	15.6	-9.5	11.6
ENGINEERING SCIENCE	0	1	2	1	1	1	12	**	1100.0	**
INDUSTRIAL	184	186	111	150	248	257	350	5.7	36.2	9.6
MECHANICAL	167	234	226	255	270	230	255	5.5	10.9	6.2
METALLURGICAL/MATERIALS	19	38	54	20	10	10	28	-10.1	180.0	5.7
MINING	0	0	0	0	1	3	2	**	-33.3	**
NUCLEAR	0	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	648	672	979	711	976	1,134	1,024	9.8	-9.7	6.8
PHYSICAL SCIENCES	782	930	724	641	669	724	780	-1.3	7.7	*
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	531	607	495	403	350	460	528	-2.4	14.8	-.1
PHYSICS	186	227	158	141	134	127	126	-6.2	-.8	-5.4
PHYSICAL SCIENCES, N.E.C.	65	96	71	97	185	137	126	13.2	-8.0	9.9
ENVIRONMENTAL SCIENCES	729	775	676	663	755	809	687	1.8	-15.7	-.9
ATMOSPHERIC SCIENCES	0	6	9	7	3	4	8	**	25.0	**
GEOSCIENCES	308	366	343	285	334	339	340	1.6	.3	1.4
OCEANOGRAPHY	2	13	15	107	116	115	91	96.5	-20.9	72.5
ENVIRONMENTAL SCIENCES, N.E.C.	419	390	309	264	302	351	246	-2.9	-29.9	-7.3
MATHEMATICAL/COMPUTER SCIENCES	1,926	1,910	1,868	1,736	2,599	3,303	3,759	9.4	13.8	10.0
COMPUTER SCIENCE	504	561	760	745	1,353	1,693	2,031	22.4	20.0	22.0
MATHEMATICS AND APPLIED MATHEMATICS	1,388	1,313	1,086	963	1,206	1,571	1,694	2.1	7.8	2.9
STATISTICS	34	36	22	28	40	39	34	2.3	-12.8	.0
LIFE SCIENCES	4,913	5,880	6,020	5,295	5,305	5,388	5,446	1.6	1.1	1.5
AGRICULTURAL SCIENCES	276	283	352	286	307	345	336	3.8	-2.6	2.8
BIOLOGICAL SCIENCES	2,771	3,171	2,667	2,285	2,192	2,006	2,056	-5.2	2.5	-4.2
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	29	33	36	6	0	0	0	-100.0	**	-100.0
BIOLOGY	2,515	2,787	2,192	1,939	1,902	1,713	1,728	-6.2	.9	-5.2
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	21	2	25	14	2	8	7	-14.9	-12.5	-14.5
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	31	40	39	3	6	3	14	-32.2	366.7	-10.7
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0	0	0
MICROBIOLOGY	82	100	99	73	63	71	65	-2.4	-8.5	-3.3
NUTRITION	57	112	169	140	101	97	110	9.3	13.4	9.8
PATHOLOGY	28	29	24	20	21	24	20	-2.5	-16.7	-4.7
PHARMACOLOGY	0	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0	0
ZOOLOGY	6	3	4	0	6	0	7	-100.0	**	2.2
BIOSCIENCES, N.E.C.	2	65	79	90	91	90	105	88.6	16.7	76.1
HEALTH SCIENCES	1,866	2,426	3,021	2,724	2,806	3,037	3,054	8.5	.6	7.3
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	295	468	738	560	803	891	877	20.2	-1.5	16.9
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	0	0	0	0	0	0	0	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	40	79	96	65	66	79	93	12.0	17.7	12.8
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	762	834	903	892	977	877	1,016	2.4	15.8	4.2
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	43	124	179	185	160	151	111	23.3	-26.5	14.5
HEALTH RELATED, N.E.C.	726	921	1,085	1,022	800	1,039	956	6.2	-8.0	4.0
PSYCHOLOGY	3,624	4,243	4,573	3,747	3,881	3,770	3,987	.7	5.8	1.4
SOCIAL SCIENCES	6,229	6,784	6,884	5,804	5,951	5,745	5,482	-1.3	-4.6	-1.8
AGRICULTURAL ECONOMICS	4	3	5	7	4	22	5	32.9	-77.3	3.2
ANTHROPOLOGY	269	309	299	255	231	182	171	-6.3	-6.0	-6.3
ECONOMICS (EXCEPT AGRICULTURAL)	426	466	412	328	374	371	346	-2.3	-6.7	-2.9
GEOGRAPHY	474	370	273	281	262	298	244	-7.4	-18.1	-9.1
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	161	101	116	109	115	117	150	-5.2	28.2	-1.0
POLITICAL SCIENCE	2,983	3,149	3,418	3,166	3,318	3,075	2,883	-.5	-6.2	-.5
SOCIOLOGY	470	545	357	332	377	339	308	-5.3	-9.1	-5.9
SOCIOLOGY/ANTHROPOLOGY	24	51	43	54	37	23	28	-.7	21.7	2.2
SOCIAL SCIENCES, N.E.C.	1,418	1,760	1,961	1,272	1,233	1,318	1,347	-1.2	2.2	-.7

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-21. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	9,207	10,329	10,524	10,747	10,893	11,167	12,178	3.3	9.1	4.1
ENGINEERING	1,336	1,637	1,682	1,599	1,850	1,942	2,247	6.4	15.7	7.7
AEROSPACE	3	7	4	4	4	5	17	8.9	240.0	28.1
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	16	30	8	10	10	14	17	-2.2	21.4	.9
CHEMICAL	54	37	49	56	66	64	58	2.9	-9.4	1.0
CIVIL	96	125	118	114	114	114	127	2.9	11.4	4.1
ELECTRICAL	370	431	426	423	508	556	755	7.0	35.8	10.7
ENGINEERING SCIENCE	34	107	155	145	195	264	263	40.7	-.4	33.9
INDUSTRIAL	375	471	372	328	380	364	345	-.5	-5.2	-1.2
MECHANICAL	220	248	380	367	350	331	415	7.0	25.4	9.5
METALLURGICAL/MATERIALS	17	21	31	33	50	59	63	23.0	6.8	20.6
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	12	14	4	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	139	146	135	119	173	171	187	3.5	9.4	4.3
PHYSICAL SCIENCES	361	351	314	254	225	266	244	-5.0	-7.5	-5.3
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	289	256	201	210	196	234	208	-3.5	-11.1	-4.6
PHYSICS	53	74	38	44	29	32	36	-8.1	18.8	-4.6
PHYSICAL SCIENCES, N.E.C.	19	21	75	0	0	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES	17	45	50	46	57	45	37	17.6	-17.8	11.8
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	1	0	0	0	0	0	0	-100.0	**	-100.0
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	16	45	50	46	57	45	37	18.8	-17.8	12.7
MATHEMATICAL/COMPUTER SCIENCES	939	1,182	905	972	1,154	1,462	2,054	7.7	40.5	11.8
COMPUTER SCIENCE	691	907	662	762	963	1,280	1,870	10.8	46.1	15.3
MATHEMATICS AND APPLIED MATHEMATICS	106	119	76	87	106	93	108	-2.2	16.1	.3
STATISTICS	142	156	167	123	85	89	76	-7.5	-14.6	-8.5
LIFE SCIENCES	1,450	1,723	1,666	1,851	1,865	2,197	2,138	7.2	-2.7	5.7
AGRICULTURAL SCIENCES	0	19	0	0	0	1	0	**	-100.0	**
BIOLOGICAL SCIENCES	736	853	874	818	676	664	556	-1.7	-16.3	-3.9
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	68	51	25	24	20	16	14	-21.4	-12.5	-20.2
BIOLOGY	505	562	611	557	395	394	318	-4.1	-19.3	-6.4
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	1	4	8	6	7	8	8	41.4	.0	34.6
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	53	38	39	25	22	**	-12.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	19	14	5	4	3	3	4	-26.5	33.3	-20.0
MICROBIOLOGY	70	66	65	66	72	49	36	-.3	-26.5	-4.6
NUTRITION	0	0	0	23	39	65	69	**	6.2	**
PATHOLOGY	0	7	11	13	16	16	18	**	12.5	**
PHARMACOLOGY	0	2	6	8	10	10	4	**	-60.0	**
PHYSIOLOGY	53	49	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	2	1	4	0	14	14	6	38.3	-57.1	17.0
BIOSCIENCES, N.E.C.	38	97	86	79	61	64	57	9.1	-10.9	6.0
HEALTH SCIENCES	714	851	792	1,033	1,189	1,532	1,582	13.6	3.3	12.0
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	3	8	31	10	**	-67.7	**
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	0	0	7	7	0	0	0	0	0	0
OBSTETRICS/GYNECOLOGY	142	160	262	324	427	636	656	**	**	**
OPHTHALMOLOGY	0	0	0	0	0	0	0	28.4	3.1	24.4
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	0	0	0	0	0	0	0	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	16	10	11	10	10	14	**	40.0	**
PSYCHIATRY	0	0	0	0	0	34	59	**	73.5	**
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	0	0	0	0	0	0	0	0	0	0
SURGERY	92	124	155	97	111	85	80	-1.3	-5.9	-2.0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	7	5	3	3	1	3	0	-13.2	-100.0	-100.0
HEALTH RELATED, N.E.C.	15	16	24	140	139	150	145	46.8	-3.3	38.3
	458	530	331	448	493	583	618	4.1	6.0	4.4
PSYCHOLOGY	1,588	1,883	2,112	2,393	2,577	2,531	2,615	8.1	3.3	7.4
SOCIAL SCIENCES	3,516	3,508	3,795	3,632	3,165	2,724	2,841	-4.2	4.3	-3.0
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0	0	0	0
ANTHROPOLOGY	4	3	6	4	3	0	0	-100.0	**	-100.0
ECONOMICS (EXCEPT AGRICULTURAL)	135	138	196	247	265	[illegible]	445	15.5	39.1	18.6
GEOGRAPHY	2	11	5	2	2	1	2	-10.9	100.0	.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	96	133	0	0	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	1,662	2,169	2,173	2,092	1,846	1,451	1,299	-2.2	-10.5	-3.5
SOCIOLOGY	116	107	132	107	96	22	19	-24.2	-13.6	-22.8
SOCIOLOGY/ANTHROPOLOGY	0	1	0	1	1	23	65	**	182.6	**
SOCIAL SCIENCES, N.E.C.	1,501	946	1,283	1,179	952	907	1,011	-8.1	11.5	-5.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-22. — MALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	18,971	21,169	19,029	17,697	17,907	18,388	18,816	-.5	2.3	-.1
ENGINEERING	2,927	3,626	3,636	3,500	4,213	4,3[illegible]	4,555	6.9	4.0	6.5
AEROSPACE	16	13	4	4	4	[illegible]	16	-17.6	220.0	.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	16	27	16	28	25	26	28	8.4	7.7	8.3
CHEMICAL	86	96	115	84	138	154	108	10.2	-29.9	3.3
CIVIL	488	625	560	602	754	598	560	3.4	-6.4	2.0
ELECTRICAL	617	839	754	795	941	1,107	1,209	10.2	9.2	10.1
ENGINEERING SCIENCE	34	103	146	142	183	225	229	37.0	1.8	31.3
INDUSTRIAL	539	608	414	421	537	527	605	-.4	14.8	1.7
MECHANICAL	378	470	574	594	592	533	642	5.9	20.5	7.9
METALLURGICAL/MATERIALS	35	51	71	48	49	60	82	9.4	36.7	12.9
MINING	0	0	0	0	1	3	2	**	-33.3	**
NUCLEAR	11	12	4	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	707	782	978	782	989	1,141	1,074	8.3	-5.9	6.2
PHYSICAL SCIENCES	897	1,006	691	682	619	683	726	-4.4	6.3	-3.0
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	625	652	470	456	361	467	503	-4.7	7.7	-3.1
PHYSICS	213	268	156	158	140	138	138	-7.0	.0	-6.0
PHYSICAL SCIENCES, N.E.C.	59	86	65	68	118	78	85	4.8	9.0	5.4
ENVIRONMENTAL SCIENCES	568	628	539	529	591	637	536	1.9	-15.9	-.8
ATMOSPHERIC SCIENCES	0	6	8	7	3	4	5	**	25.0	**
GEOSCIENCES	244	292	255	224	257	261	272	1.1	4.2	1.6
OCEANOGRAPHY	1	9	11	78	82	80	65	107.6	-18.8	81.5
ENVIRONMENTAL SCIENCES, N.E.C.	323	321	265	220	249	292	194	-1.7	-33.6	-7.0
MATHEMATICAL/COMPUTER SCIENCES	2,057	2,256	1,866	1,313	2,458	3,056	3,844	6.8	25.8	9.3
COMPUTER SCIENCE	1,009	1,231	1,090	1,076	1,604	2,004	2,673	12.1	33.4	14.9
MATHEMATICS AND APPLIED MATHEMATICS	910	881	648	636	762	961	1,095	.9	13.9	2.7
STATISTICS	138	144	130	101	92	91	76	-6.7	-16.5	-8.2
LIFE SCIENCES	3,332	3,816	3,080	2,856	2,475	2,643	2,473	-3.8	-6.4	-4.2
AGRICULTURAL SCIENCES	232	262	298	240	261	294	255	4.0	-13.3	1.4
BIOLOGICAL SCIENCES	2,796	2,497	1,964	1,710	1,465	1,314	1,284	-8.9	-2.3	-8.0
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	75	59	46	21	10	7	5	-32.6	-28.6	-32.1
BIOLOGY	1,995	2,146	1,648	1,454	1,233	1,094	1,092	-9.5	-.2	-8.2
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	16	5	28	13	5	6	9	-15.1	50.0	-7.9
CELL BIOLOGY	0	0	[illegible]	0	0	0	0	0	0	0
ECOLOGY	23	26	4[illegible]	25	18	17	17	-4.9	.0	-4.2
ENTOMOLOGY/PARASITOLOGY	0	0	[illegible]	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	**	**	**
MICROBIOLOGY	72	87	84	67	72	59	39	-3.3	-33.9	-8.4
NUTRITION	3	9	7	12	5	8	10	17.8	25.0	18.8
PATHOLOGY	24	31	24	21	20	33	26	5.5	-21.2	1.2
PHARMACOLOGY	0	1	4	5	3	3	2	**	-33.3	**
PHYSIOLOGY	53	49	0	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	5	3	8	0	10	7	8	5.8	14.3	6.9
BIOSCIENCES, N.E.C.	30	81	74	92	89	80	76	17.8	-5.0	14.2
HEALTH SCIENCES	804	1,057	818	906	749	1,035	934	4.3	-9.8	2.2
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	4	12	6	**	-50.0	**
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	5	5	0	0	0	**	**	**
NURSING	35	44	42	37	56	71	73	12.5	2.8	11.1
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	13	8	9	6	6	8	**	33.3	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4	34	24	11	10	17	40	27.3	135.3	38.9
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	108	172	124	93	73	89	65	-3.2	-27.0	-7.0
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	4	3	3	3	0	3	0	-4.7	-100.0	-100.0
CLINICAL MEDICINE, N.E.C.	25	50	58	72	83	94	58	24.7	-38.3	12.8
HEALTH RELATED, N.E.C.	628	[illegible]1	554	676	517	743	684	2.8	-7.9	1.2
PSYCHOLOGY	2,[illegible]6	2,923	2,832	2,648	2,515	2,342	2,162	-2.0	-7.7	-2.8
SOCIAL SCIENCES	6,944	6,914	6,383	5,669	5,036	4,648	4,520	-5.5	-2.8	-5.1
AGRICULTURAL ECONOMICS	4	3	5	6	4	20	3	30.8	-85.0	-4.0
ANTHROPOLOGY	111	164	100	111	92	76	65	-6.1	-14.5	-7.4
ECONOMICS (EXCEPT AGRICULTURAL)	453	489	437	410	430	456	518	.1	13.6	1.9
GEOGRAPHY	349	282	191	181	178	202	164	-8.7	-18.8	-10.2
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	148	116	18	23	23	20	25	-28.4	25.0	-22.4
POLITICAL SCIENCE	3,422	3,851	3,615	3,379	3,009	2,610	2,429	-4.4	-6.9	-4.8
SOCIOLOGY	293	319	238	215	167	152	122	-10.4	-19.7	-11.8
SOCIOLOGY/ANTHROPOLOGY	11	42	23	27	23	25	40	14.7	60.0	20.3
SOCIAL SCIENCES, N.E.C.	1,753	1,648	1,756	1,317	1,110	1,087	1,154	-7.7	6.2	-5.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-23. -- FEMALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL FIELDS	10,230	11,874	14,619	13,110	14,962	15,440	16,318	7.1	5.7	6.9
ENGINEERING	200	203	425	273	453	485	512	15.9	5.6	14.4
AEROSPACE	0	0	0	0	0	0	1	**	**	**
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	3	10	3	6	3	12	**	300.0	**
CHEMICAL	15	4	19	13	26	22	24	6.6	9.1	6.9
CIVIL	60	65	105	93	60	53	55	-2.0	3.8	-1.2
ELECTRICAL	14	19	29	22	58	72	110	31.4	52.8	34.2
ENGINEERING SCIENCE	0	5	11	4	13	40	46	**	15.0	**
INDUSTRIAL	20	49	69	57	91	94	89	29.4	-4.3	24.0
MECHANICAL	9	12	32	28	28	28	28	20.8	.0	17.6
METALLURGICAL/MATERIALS	1	8	14	5	11	9	9	44.2	.0	36.9
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	1	2	0	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	80	36	136	48	160	164	137	12.7	-16.5	8.0
PHYSICAL SCIENCES	246	275	347	213	275	307	300	3.8	-2.3	2.9
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	195	211	226	157	185	227	233	2.6	2.6	2.6
PHYSICS	26	33	40	27	23	21	26	-3.5	23.8	.0
PHYSICAL SCIENCES, N.E.C.	25	31	81	29	67	59	41	15.4	-30.5	7.3
ENVIRONMENTAL SCIENCES	178	192	187	180	221	217	183	3.4	-15.7	.4
ATMOSPHERIC SCIENCES	0	0	1	0	0	0	0	**	**	**
GEOSCIENCES	65	74	88	61	77	78	68	3.1	-12.8	.6
OCEANOGRAPHY	1	4	4	29	34	35	26	80.9	-25.7	59.3
ENVIRONMENTAL SCIENCES, N.E.C.	112	114	94	90	110	104	89	-1.2	-14.4	-3.2
MATHEMATICAL/COMPUTER SCIENCES	808	836	905	895	1,295	1,709	1,969	13.3	15.2	13.6
COMPUTER SCIENCE	186	237	332	431	712	969	1,228	31.7	26.7	30.9
MATHEMATICS AND APPLIED MATHEMATICS	584	551	514	414	550	703	707	3.1	.6	2.8
STATISTICS	38	48	59	50	33	37	34	-.4	-8.1	-1.6
LIFE SCIENCES	3,031	3,787	4,606	4,290	4,695	4,942	5,111	8.5	3.4	7.7
AGRICULTURAL SCIENCES	44	40	54	46	46	52	81	2.8	55.8	9.1
BIOLOGICAL SCIENCES	1,211	1,527	1,577	1,393	1,403	1,356	1,328	1.9	-2.1	1.3
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	22	25	15	9	10	9	9	-13.8	.0	-12.0
BIOLOGY	1,025	1,203	1,155	1,042	1,064	1,013	954	-.2	-5.8	-1.0
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	6	1	5	7	4	10	6	8.9	-40.0	.0
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	8	14	51	16	27	11	19	5.5	72.7	13.2
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	19	14	5	4	3	3	4	-26.5	33.3	-20.0
MICROBIOLOGY	60	79	80	72	63	61	62	.3	1.6	.5
NUTRITION	54	103	162	151	135	154	169	19.1	9.7	17.7
PATHOLOGY	4	5	11	12	17	7	12	9.8	71.4	17.0
PHARMACOLOGY	0	1	2	3	7	7	2	**	-71.4	**
PHYSIOLOGY	0	0	0	0	0	0	0	0	0	0
ZOOLOGY	3	1	0	0	10	7	5	15.2	-28.6	7.6
BIOSCIENCES, N.E.C.	10	81	91	77	63	74	86	39.6	16.2	36.0
HEALTH SCIENCES	1,776	2,220	2,975	2,851	3,246	3,514	3,702	12.2	4.8	11.1
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	3	4	19	4	**	-78.9	**
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	2	2	0	0	0	**	**	**
NURSING	402	584	958	847	1,174	1,456	1,461	23.9	.3	20.2
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	3	2	2	4	4	6	**	50.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	36	45	72	54	56	96	112	17.8	16.7	17.6
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	746	786	934	896	1,015	873	1,031	2.7	18.1	4.7
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	3	2	0	0	1	0	0	-100.0	**	-100.0
CLINICAL MEDICINE, N.E.C.	33	90	145	253	216	207	198	35.8	-4.3	29.2
HEALTH RELATED, N.E.C.	556	710	862	794	776	879	890	7.9	1.3	7.0
PSYCHOLOGY	2,566	3,203	3,853	3,492	3,943	3,959	4,440	7.5	12.1	8.1
SOCIAL SCIENCES	3,201	3,478	4,296	3,767	4,080	3,821	3,803	3.0	-.5	2.5
AGRICULTURAL ECONOMICS	0	0	0	1	0	2	2	**	.0	**
ANTHROPOLOGY	162	208	205	148	142	106	106	-6.8	.0	-5.9
ECONOMICS (EXCEPT AGRICULTURAL)	108	115	171	165	209	235	273	13.8	16.2	14.2
GEOGRAPHY	127	99	87	102	86	97	82	-4.4	-15.5	-6.1
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	109	118	98	86	92	97	125	-1.9	28.9	2.0
POLITICAL SCIENCE	1,223	1,467	1,976	1,879	2,155	1,916	1,753	7.8	-8.5	5.3
SOCIOLOGY	293	333	251	224	306	209	205	-5.5	-1.9	-5.0
SOCIOLOGY/ANTHROPOLOGY	13	10	20	28	15	21	53	8.3	152.4	22.2
SOCIAL SCIENCES, N.E.C.	1,166	1,028	1,488	1,134	1,075	1,138	1,204	-.4	5.8	.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-24. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1976-77 AND 1979-83

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1983	1976-82	1982-83	1976-83
TOTAL, ALL INSTITUTIONS	29,201	33,043	33,648	30,807	32,869	33,828	35,134	2.5	3.9	2.7
NEW ENGLAND	1,916	2,861	3,624	3,871	3,567	3,927	4,068	12.7	3.6	11.4
CONNECTICUT	1,235	1,816	2,401	2,418	2,159	2,630	2,761	13.4	5.0	12.2
MAINE	0	0	0	0	0	0	0	**	**	**
MASSACHUSETTS	533	899	1,079	1,286	1,265	1,141	1,129	13.5	-1.1	11.3
NEW HAMPSHIRE	64	52	41	67	38	55	61	-2.5	10.9	-.7
RHODE ISLAND	46	52	76	99	105	101	117	14.0	15.8	14.3
VERMONT	38	42	27	1	0	0	0	-100.0	**	-100.0
MIDDLE ATLANTIC	7,587	7,885	6,915	5,513	6,311	6,635	7,230	-2.2	9.0	-.7
NEW JERSEY	2,589	2,539	1,347	966	961	925	977	-15.8	5.6	-13.0
NEW YORK	3,331	3,693	3,800	3,014	3,608	3,997	4,720	3.1	18.1	5.1
PENNSYLVANIA	1,667	1,653	1,768	1,533	1,742	1,713	1,533	.5	-10.5	-1.2
EAST NORTH CENTRAL	3,866	3,702	3,336	3,496	3,640	3,746	3,901	-.5	4.1	.1
ILLINOIS	2,574	2,250	2,301	2,210	2,234	2,378	2,398	-1.3	.8	-1.0
INDIANA	211	375	334	344	310	268	293	4.1	9.3	4.8
MICHIGAN	262	280	278	355	434	396	488	7.1	23.2	9.3
OHIO	534	480	162	201	181	190	210	-15.8	10.5	-12.5
WISCONSIN	285	317	261	386	481	514	512	10.3	-.4	8.7
WEST NORTH CENTRAL	615	693	819	985	909	856	1,005	5.7	17.4	7.3
IOWA	97	143	106	118	112	89	83	-1.4	-6.7	-2.2
KANSAS	238	200	241	379	395	302	380	4.0	25.8	6.9
MINNESOTA	170	203	302	277	207	249	316	6.6	26.9	9.3
MISSOURI	104	137	164	201	193	214	221	12.8	3.3	11.4
NEBRASKA	6	10	6	10	2	2	5	-16.7	150.0	-2.6
NORTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH ATLANTIC	3,055	3,138	3,877	3,084	3,556	3,436	3,551	2.0	3.3	2.1
DELAWARE	0	0	0	0	0	0	0	**	**	**
DISTRICT OF COLUMBIA	37	38	35	35	32	64	69	9.6	7.8	9.3
FLORIDA	693	828	945	714	566	479	610	-6.0	27.3	-1.8
GEORGIA	230	202	304	246	238	287	187	3.8	-34.8	-2.9
MARYLAND	934	842	1,619	1,492	1,600	1,515	1,533	8.4	1.2	7.3
NORTH CAROLINA	242	332	165	260	294	343	403	6.0	17.5	7.6
SOUTH CAROLINA	76	66	103	100	109	120	91	7.9	-24.2	2.6
VIRGINIA	480	492	590	237	206	143	157	-18.3	9.8	-13.8
WEST VIRGINIA	363	338	116	0	507	485	501	4.9	3.3	4.7
EAST SOUTH CENTRAL	783	915	1,298	963	1,179	1,103	1,261	5.9	14.3	7.0
ALABAMA	102	143	281	220	228	238	218	15.2	-8.4	11.5
KENTUCKY	148	204	360	318	355	313	308	13.3	-1.6	11.0
MISSISSIPPI	134	157	140	117	109	119	146	-2.0	22.7	1.2
TENNESSEE	399	411	517	308	487	433	589	1.4	36.0	5.7
WEST SOUTH CENTRAL	2,057	2,399	2,739	2,796	2,704	3,059	3,396	6.8	11.0	7.4
ARKANSAS	258	191	269	254	260	291	368	2.0	26.5	5.2
LOUISIANA	162	154	139	136	240	273	267	9.1	-2.2	7.4
OKLAHOMA	24	43	87	85	69	61	57	16.8	-6.6	13.2
TEXAS	1,613	2,011	2,244	2,321	2,135	2,434	2,704	7.1	11.1	7.7
MOUNTAIN	25	92	182	212	296	197	98	41.1	-50.3	21.5
ARIZONA	0	0	0	0	0	0	0	**	**	**
COLORADO	4	7	9	22	25	24	4	34.8	-83.3	.0
IDAHO	0	0	0	0	0	0	0	**	**	**
MONTANA	1	0	2	3	3	8	10	41.4	25.0	38.9
NEVADA	0	0	101	117	122	94	23	**	-75.5	**
NEW MEXICO	20	86	70	70	146	71	61	23.5	-14.1	17.3
UTAH	0	0	0	0	0	0	0	**	**	**
WYOMING	0	0	0	0	0	0	0	**	**	**
PACIFIC	9,284	11,343	10,837	9,862	10,689	10,838	10,601	2.6	-2.2	1.9
ALASKA	75	168	149	168	169	159	156	13.3	-1.9	11.0
CALIFORNIA	8,597	10,741	10,034	9,069	9,885	10,148	9,813	2.8	-3.3	1.9
HAWAII	0	0	0	0	0	0	0	**	**	**
OREGON	69	84	74	120	127	80	102	2.5	27.5	5.7
WASHINGTON	543	350	580	505	508	451	530	-3.0	17.5	-.3
OUTLYING AREAS	13	14	21	25	18	31	23	15.6	-25.8	8.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-1. — SCIENCE/ENGINEERING DEPARTMENTAL POPULATION AT DOCTORATE-GRANTING ICSTITUTIONS BY FIELD: 1976-83

FIELD	1976	1977	1978	1979	1980	1981	1982	1983
TOTAL, ALL FIELDS	7,799	7,988	8,202	8,341	8,516	8,437	8,299	8,204
ENGINEERING	1,004	1,010	1,021	1,024	1,035	1,040	1,055	1,062
AEROSPACE	38	38	37	36	36	35	35	35
AGRICULTURAL	40	40	39	38	38	38	38	38
BIOMEDICAL	37	38	40	38	37	39	39	38
CHEMICAL	119	118	117	118	121	120	123	125
CIVIL	158	160	161	162	165	164	167	171
ELECTRICAL	146	146	147	150	152	153	156	157
ENGINEERING SCIENCE	35	34	36	35	35	35	35	32
INDUSTRIAL	90	93	95	95	96	94	97	99
MECHANICAL	150	153	153	153	153	153	154	156
METALLURGICAL/MATERIALS	65	66	66	68	67	68	68	69
MINING	17	17	18	19	21	22	23	25
NUCLEAR	31	30	31	30	29	30	30	29
PETROLEUM	14	13	13	13	14	14	15	15
ENGINEERING, N.E.C.	64	64	68	69	71	75	75	73
PHYSICAL SCIENCES	506	507	517	517	523	523	520	520
ASTRONOMY	33	33	34	33	32	32	32	32
CHEMISTRY	241	240	245	248	251	251	249	250
PHYSICS	228	229	231	231	234	234	234	233
PHYSICAL SCIENCES, N.E.C.	4	5	7	5	6	6	5	5
ENVIRONMENTAL SCIENCES	267	272	279	280	282	284	286	284
ATMOSPHERIC SCIENCES	26	27	27	26	27	28	28	27
GEOSCIENCES	180	177	181	183	183	182	186	186
OCEANOGRAPHY	32	32	32	32	32	34	34	33
ENVIRONMENTAL SCIENCES, N.E.C.	29	36	39	39	40	40	38	38
MATHEMATICAL/COMPUTER SCIENCES	401	405	417	428	456	456	471	479
COMPUTER SCIENCE	91	94	101	108	123	127	137	146
MATHEMATICS AND APPLIED MATHEMATICS	261	261	264	267	277	273	277	275
STATISTICS	49	50	52	53	56	56	57	58
LIFE SCIENCES	4,208	4,377	4,496	4,583	4,661	4,574	4,399	4,286
AGRICULTURAL SCIENCES	275	276	271	274	271	270	274	274
BIOLOGICAL SCIENCES	1,568	1,618	1,674	1,739	1,767	1,768	1,760	1,746
ANATOMY	104	107	114	118	119	118	121	121
BIOCHEMISTRY	159	163	173	183	182	184	182	182
BIOLOGY	195	197	204	211	214	213	212	213
BIOMETRY/EPIDEMIOLOGY	36	42	42	40	44	41	39	40
BIOPHYSICS	33	35	36	38	38	36	33	30
BOTANY	113	110	109	109	109	108	110	108
CELL BIOLOGY	39	41	43	45	44	50	54	54
ECOLOGY	17	19	20	20	22	23	23	23
ENTOMOLOGY/PARASITOLOGY	49	48	49	48	48	48	47	46
GENETICS	52	55	56	59	58	60	60	59
MICROBIOLOGY	199	210	213	225	233	232	226	223
NUTRITION	75	78	81	87	91	93	94	95
PATHOLOGY	141	146	150	150	156	153	149	147
PHARMACOLOGY	155	165	173	179	180	177	176	174
PHYSIOLOGY	124	128	133	142	144	143	146	143
ZOOLOGY	64	61	61	63	58	57	58	57
BIOSCIENCES, N.E.C.	13	13	17	22	25	32	30	31
HEALTH SCIENCES	2,365	2,483	2,551	2,570	2,623	2,536	2,365	2,266
ANESTHESIOLOGY	94	99	98	98	98	94	87	81
CANCER/ONCOLOGY	21	23	23	25	26	27	25	25
CARDIOLOGY	98	98	98	92	93	89	81	70
DENTISTRY	55	81	85	86	85	85	81	81
ENDOCRINOLOGY	93	92	92	88	89	84	77	71
GASTROENTEROLOGY	86	86	86	82	82	80	74	67
HEMATOLOGY	90	89	89	87	88	83	78	72
NEUROLOGY	109	110	113	117	117	113	104	103
NURSING	57	78	83	88	97	99	100	100
OBSTETRICS/GYNECOLOGY	107	106	105	106	108	101	93	86
OPHTHALMOLOGY	99	99	100	100	98	94	84	77
OTORHINOLARYNGOLOGY	93	92	92	91	90	85	75	67
PEDIATRICS	109	109	109	109	110	106	104	101
PHARMACEUTICAL SCIENCES	70	80	81	81	82	81	80	76
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	155	160	163	159	166	157	148	144
PSYCHIATRY	103	104	103	108	110	104	96	92
PULMONARY DISEASE	85	84	84	81	80	75	69	65
RADIOLOGY	124	125	127	131	134	130	117	110
SPEECH PATHOLOGY/AUDIOLOGY	90	98	108	115	121	121	121	122
SURGERY	217	224	225	233	246	235	215	208
VETERINARY SCIENCES	29	33	34	34	33	35	33	33
CLINICAL MEDICINE, N.E.C.	270	290	320	322	326	312	286	276
HEALTH RELATED, N.E.C.	111	123	133	137	144	146	137	139
PSYCHOLOGY	287	301	317	320	325	330	331	335
SOCIAL SCIENCES	1,086	1,116	1,155	1,189	1,234	1,230	1,237	1,238
AGRICULTURAL ECONOMICS	47	47	47	47	47	48	49	50
ANTHROPOLOGY	106	106	109	109	113	113	114	112
ECONOMICS (EXCEPT AGRICULTURAL)	184	184	188	189	199	196	192	191
GEOGRAPHY	87	89	93	95	98	98	97	97
HISTORY AND PHILOSOPHY OF SCIENCE	26	26	26	27	26	27	26	26
LINGUISTICS	58	54	55	62	64	64	63	63
POLITICAL SCIENCE	234	245	257	271	285	282	283	282
SOCIOLOGY	161	163	164	168	173	168	168	168
SOCIOLOGY/ANTHROPOLOGY	26	29	31	33	32	33	34	33
SOCIAL SCIENCES, N.E.C.	157	173	185	188	197	201	211	216

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-2. — SCIENCE/ENGINEERING DEPARTMENTAL POPULATION AT MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-83

FIELD	1976	1977	1979	1980	1981	1982	1983
TOTAL, ALL FIELDS	1,299	1,469	1,442	1,409	1,432	1,434	1,459
ENGINEERING	128	156	147	147	145	150	157
AEROSPACE	3	2	1	1	1	1	2
AGRICULTURAL	0	0	0	0	0	0	0
BIOMEDICAL	2	2	3	3	3	3	3
CHEMICAL	6	7	8	7	7	7	7
CIVIL	19	27	25	26	26	26	26
ELECTRICAL	21	27	26	28	26	30	30
ENGINEERING SCIENCE	5	7	6	6	6	6	6
INDUSTRIAL	19	23	20	22	25	26	29
MECHANICAL	19	23	21	19	16	16	18
METALLURGICAL/MATERIALS	5	6	5	4	5	5	5
MINING	5	3	3	3	3	3	3
NUCLEAR	2	2	1	0	0	0	0
PETROLEUM	1	1	1	2	1	1	1
ENGINEERING, N.E.C.	21	26	27	26	26	26	27
PHYSICAL SCIENCES	179	189	171	158	154	153	146
ASTRONOMY	0	0	0	0	0	0	0
CHEMISTRY	109	114	105	98	96	95	93
PHYSICS	57	61	56	52	49	48	43
PHYSICAL SCIENCES, N.E.C.	13	14	10	8	9	10	10
ENVIRONMENTAL SCIENCES	51	55	54	56	55	56	55
ATMOSPHERIC SCIENCES	0	1	1	1	1	1	1
GEOSCIENCES	31	32	30	30	29	29	29
OCEANOGRAPHY	3	2	2	3	3	3	4
ENVIRONMENTAL SCIENCES, N.E.C.	17	20	21	22	22	23	21
MATHEMATICAL/COMPUTER SCIENCES	157	173	167	158	163	158	166
COMPUTER SCIENCE	26	32	33	31	38	38	46
MATHEMATICS AND APPLIED MATHEMATICS	127	137	129	123	122	117	117
STATISTICS	4	4	5	4	3	3	3
LIFE SCIENCES	296	346	354	352	369	376	385
AGRICULTURAL SCIENCES	17	18	23	23	24	23	24
BIOLOGICAL SCIENCES	193	220	215	207	208	205	209
ANATOMY	0	0	0	0	0	0	0
BIOCHEMISTRY	5	7	6	3	2	2	2
BIOLOGY	156	172	169	161	160	156	155
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0
BOTANY	7	6	5	5	5	5	6
CELL BIOLOGY	0	0	0	0	0	0	0
ECOLOGY	1	1	3	2	2	2	3
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0
GENETICS	1	1	1	1	1	1	1
MICROBIOLOGY	5	7	7	7	7	6	5
NUTRITION	6	9	8	11	12	13	15
PATHOLOGY	1	2	2	2	2	2	2
PHARMACOLOGY	1	1	1	1	1	1	1
PHYSIOLOGY	1	1	0	0	0	0	0
ZOOLOGY	4	4	4	4	5	5	7
BIOSCIENCES, N.E.C.	5	9	9	10	11	12	12
HEALTH SCIENCES	86	108	116	122	137	148	152
ANESTHESIOLOGY	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	1	1	1	1
DENTISTRY	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0
NEUROLOGY	0	0	1	1	1	1	1
NURSING	14	17	18	17	23	26	26
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	2	4	4	4	4	4	4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1	3	3	3	3	5	6
PSYCHIATRY	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	34	43	48	49	54	54	53
SURGERY	0	0	0	0	0	0	0
VETERINARY SCIENCES	1	1	1	1	1	1	1
CLINICAL MEDICINE, N.E.C.	2	4	4	8	8	9	9
HEALTH RELATED, N.E.C.	29	33	35	38	42	47	51
PSYCHOLOGY	153	167	179	176	190	189	195
SOCIAL SCIENCES	335	383	370	362	361	352	355
AGRICULTURAL ECONOMICS	2	2	2	3	3	3	3
ANTHROPOLOGY	12	15	15	12	12	11	13
ECONOMICS (EXCEPT AGRICULTURAL)	53	55	50	45	42	41	38
GEOGRAPHY	28	31	27	27	26	26	26
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0
LINGUISTICS	7	6	4	4	4	4	4
POLITICAL SCIENCE	114	130	123	122	131	123	123
SOCIOLOGY	44	50	54	52	50	46	45
SOCIOLOGY/ANTHROPOLOGY	9	8	6	6	6	6	5
SOCIAL SCIENCES, N.E.C.	66	86	89	91	87	92	97

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE G-3. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	358,276	243,646	114,630	20,790
1 UNIVERSITY OF SOUTHERN CALIFORNIA	8,343	3,526	4,817	227
2 UNIVERSITY OF CALIF AT BERKELEY	5,381	5,381	0	652
3 UNIVERSITY OF MINNESOTA	5,249	4,273	976	252
4 UNIVERSITY OF WISCONSIN - MADISON	5,247	4,584	663	394
5 OHIO STATE UNIVERSITY	4,917	4,082	835	172
6 UNIV OF TEXAS AT AUSTIN	4,745	3,903	842	200
7 UNIVERSITY OF PITTSBURGH	4,694	2,435	2,259	154
8 UNIVERSITY OF ILLINOIS - URBANA	4,556	4,435	121	248
9 UNIVERSITY OF MICHIGAN	4,533	3,992	541	293
10 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	4,466	4,247	219	427
TOTAL, 1ST 10 INSTS.	52,131	40,858	11,273	3,019
11 RUTGERS THE STATE UNIVERSITY	4,387	1,794	2,593	119
12 PURDUE UNIVERSITY	4,322	3,153	1,169	186
13 STANFORD UNIVERSITY	4,297	3,806	491	545
14 UNIVERSITY OF CALIF AT LOS ANGELES	4,198	3,952	246	453
15 UNIVERSITY OF WASHINGTON	3,958	2,918	1,040	490
16 TEXAS A & M UNIVERSITY	3,907	3,236	671	124
17 NEW YORK UNIVERSITY	3,853	1,441	2,412	144
18 PENNSYLVANIA STATE UNIVERSITY	3,557	2,591	966	114
19 NORTHEASTERN UNIVERSITY	3,539	985	2,554	29
20 GEORGE WASHINGTON UNIVERSITY	3,388	819	2,569	19
TOTAL, 1ST 20 INSTS.	91,537	65,553	25,984	5,242
21 UNIVERSITY OF ARIZONA	3,295	2,529	766	203
22 MICHIGAN STATE UNIVERSITY	3,201	2,560	641	155
23 UNIVERSITY OF MARYLAND - COLLEGE PARK	3,196	1,830	1,366	140
24 UNIVERSITY OF COLORADO	3,187	2,573	614	287
25 CORNELL UNIVERSITY	3,113	3,099	14	359
26 COLUMBIA UNIVERSITY MAIN DIVISION	2,993	2,211	782	348
27 FLORIDA INSTITUTE OF TECHNOLOGY	2,904	526	2,378	2
28 UNIVERSITY OF FLORIDA	2,849	2,299	550	197
29 HARVARD UNIVERSITY	2,842	2,771	71	1,430
30 UNIVERSITY OF TENNESSEE AT KNOXVILLE	2,770	1,788	982	52
TOTAL, 1ST 30 INSTS.	121,887	87,739	34,148	8,415
31 UNIV OF NORTH CAROLINA AT CHAPEL HILL	2,638	2,315	323	258
32 IOWA STATE UNIVERSITY OF SCI & TECH	2,637	2,129	508	44
33 NORTH CAROLINA STATE UNIV AT RALEIGH	2,634	2,121	513	63
34 BOSTON UNIVERSITY	2,592	1,642	950	62
35 UNIVERSITY OF PENNSYLVANIA	2,573	2,085	488	399
36 UNIVERSITY OF CALIF AT DAVIS	2,557	2,412	145	158
37 VIRGINIA POLYTECHNIC INST AND STATE UNIV	2,555	1,919	636	51
38 UNIVERSITY OF ILLINOIS AT CHICAGO	2,530	1,677	853	134
39 WEST VIRGINIA UNIVERSITY	2,486	1,188	1,298	30
40 UNIVERSITY OF CINCINNATI	2,468	1,400	1,068	77
TOTAL, 1ST 40 INSTS.	147,557	106,627	40,930	9,693
41 UNIVERSITY OF CONNECTICUT	2,460	2,000	460	130
42 ARIZONA STATE UNIVERSITY	2,446	1,485	961	70
43 UNIVERSITY OF KANSAS	2,389	2,098	291	117
44 SYRACUSE UNIVERSITY	2,388	1,164	1,224	47
45 SUNY - BUFFALO	2,368	1,602	766	114
46 INDIANA UNIVERSITY	2,362	1,639	723	198
47 UNIVERSITY OF MASSACHUSETTS AT AMHERST	2,317	1,455	862	45
48 SUNY - STONY BROOK	2,297	1,615	682	163
49 UNIVERSITY OF OKLAHOMA	2,294	1,551	743	86
50 UNIVERSITY OF IOWA	2,226	1,802	424	220
TOTAL, 1ST 50 INSTS.	171,104	123,038	48,066	10,883

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TABLE E-3. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

– CONTINUED

INSTITUTIONAL RANKING		TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
51	WAYNE STATE UNIVERSITY	2,149	1,253	896	39
52	UNIVERSITY OF UTAH	2,052	1,555	497	142
53	GEORGIA INSTITUTE OF TECHNOLOGY	2,000	1,507	493	50
54	UNIVERSITY OF HAWAII AT MANOA	1,965	1,670	295	30
55	SAN DIEGO STATE UNIVERSITY	1,954	1,054	900	23
56	UNIVERSITY OF MISSOURI - COLUMBIA	1,949	1,464	485	65
57	LONG ISLAND UNIVERSITY	1,945	244	1,701	1
58	TEXAS WOMAN'S UNIVERSITY	1,945	720	1,225	2
59	UNIVERSITY OF WISCONSIN - MILWAUKEE	1,936	1,003	933	23
60	UNIV OF TEXAS AT ARLINGTON	1,897	936	961	25
	TOTAL, 1ST 60 INSTS.	190,896	134,444	56,452	11,283
61	LOUISIANA STATE UNIVERSITY SYSTEM	1,852	1,486	366	137
62	RENSSELAER POLYTECHNIC INSTITUTE	1,825	1,358	467	52
63	UNIVERSITY OF SOUTH CAROLINA	1,814	1,155	659	50
64	COLORADO STATE UNIVERSITY	1,813	1,325	488	82
65	CUNY GRADUATE SCHOOL AND UNIV CENTER	1,803	1,722	81	62
66	ILLINOIS INSTITUTE OF TECHNOLOGY	1,784	386	1,398	16
67	CASE WESTERN RESERVE UNIVERSITY	1,778	1,232	546	177
68	UNIVERSITY OF GEORGIA	1,731	1,567	164	101
69	NEW SCHOOL FOR SOCIAL RESEARCH	1,726	302	1,424	0
70	UNIVERSITY OF KENTUCKY	1,716	1,267	449	124
	TOTAL, 1ST 70 INSTS.	208,738	146,244	62,494	12,084
71	YALE UNIVERSITY	1,707	1,659	48	608
72	UNIVERSITY OF HOUSTON-UNIVERSITY PARK	1,701	867	834	57
73	PACE UNIVERSITY	1,666	318	1,348	0
74	OREGON STATE UNIVERSITY	1,657	1,463	194	66
75	NORTHWESTERN UNIVERSITY	1,635	1,490	145	152
76	FLORIDA STATE UNIVERSITY	1,598	1,167	431	41
77	CATHOLIC UNIVERSITY OF AMERICA	1,577	991	586	13
78	POLYTECHNIC INSTITUTE OF N.Y.	1,540	323	1,217	18
79	UNIVERSITY OF NEW MEXICO	1,540	946	594	25
80	UNIVERSITY OF VIRGINIA	1,539	1,324	215	140
	TOTAL, 1ST 80 INSTS.	224,898	156,392	68,906	13,204
81	OKLAHOMA STATE UNIVERSITY	1,479	1,299	180	30
82	TEMPLE UNIVERSITY	1,478	901	577	111
83	UNIVERSITY OF NEBRASKA - LINCOLN	1,462	1,143	319	44
84	AMERICAN UNIVERSITY	1,459	495	964	7
85	JOHNS HOPKINS UNIVERSITY	1,456	1,314	142	393
86	UNIVERSITY OF CHICAGO	1,444	1,416	28	243
87	UNIVERSITY OF LOWELL	1,408	431	977	8
88	COLUMBIA UNIVERSITY TEACHERS COLLEGE	1,400	517	883	0
89	CUNY HUNTER COLLEGE	1,396	751	645	0
90	WESTERN MICHIGAN UNIVERSITY	1,381	592	789	2
	TOTAL, 1ST 90 INSTS.	239,261	165,251	74,010	14,042
91	WASHINGTON STATE UNIVERSITY	1,367	1,176	191	59
92	KANSAS STATE UNIV OF AGR & APPLIED SCI	1,331	1,087	244	48
93	VIRGINIA COMMONWEALTH UNIVERSITY	1,318	895	423	113
94	UNIVERSITY OF SANTA CLARA	1,310	75	1,235	0
95	STEVENS INSTITUTE OF TECHNOLOGY	1,300	405	895	15
96	FAIRLEIGH DICKINSON UNIVERSITY	1,275	265	1,010	0
97	NORTH TEXAS STATE UNIVERSITY	1,274	820	454	27
98	SOUTHERN ILLINOIS UNIV AT CARBONDALE	1,269	1,071	198	20
99	US NAVAL POSTGRADUATE SCHOOL	1,266	1,266	0	14
100	UNIVERSITY OF CALIF AT SAN DIEGO	1,241	1,149	92	432
	TOTAL, 1ST 100 INSTS.	252,212	173,460	78,752	14,770

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TABLE E-3. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

— CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
101 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	1,228	775	453	3
102 UNIVERSITY OF CALIF AT SANTA BARBARA	1,218	1,178	40	114
103 UNIVERSITY OF DELAWARE	1,180	776	404	30
104 UNIVERSITY OF CALIF AT IRVINE	1,178	1,134	44	133
105 UNIVERSITY OF LOUISVILLE	1,149	665	484	24
106 CARNEGIE-MELLON UNIVERSITY	1,144	965	179	103
107 UNIVERSITY OF AKRON	1,132	579	553	14
108 SUNY - BINGHAMTON	1,126	585	541	9
109 PRINCETON UNIVERSITY	1,123	1,123	0	167
110 VILLANOVA UNIVERSITY	1,123	200	923	0
TOTAL, 1ST 110 INSTS.	263,813	181,440	82,373	15,367
111 CLEMSON UNIVERSITY	1,119	882	237	9
112 DREXEL UNIVERSITY	1,102	426	676	27
113 UNIVERSITY OF RHODE ISLAND	1,102	727	375	9
114 UNIVERSITY OF ROCHESTER	1,098	946	152	211
115 WASHINGTON UNIVERSITY	1,095	867	228	322
116 TEXAS TECH UNIVERSITY	1,089	930	159	42
117 UNIVERSITY OF SOUTH FLORIDA	1,087	571	516	7
118 UNIVERSITY OF MIAMI	1,076	810	266	64
119 UNIVERSITY OF MISSOURI - ROLLA	1,068	617	451	12
120 UTAH STATE UNIVERSITY	1,065	919	146	33
TOTAL, 1ST 120 INSTS.	274,714	189,135	85,579	16,103
121 UNIVERSITY OF DENVER	1,041	798	243	17
122 ADELPHI UNIVERSITY	1,018	324	694	1
123 DE PAUL UNIVERSITY	1,005	393	612	0
124 UNIVERSITY OF ARKANSAS	997	766	231	23
125 OLD DOMINION UNIVERSITY	991	422	569	20
126 GEORGETOWN UNIVERSITY	990	659	331	41
127 AUBURN UNIVERSITY	984	812	172	13
128 MISSISSIPPI STATE UNIVERSITY	973	774	199	8
129 TULANE UNIVERSITY OF LOUISIANA	968	694	274	27
130 CLEVELAND STATE UNIVERSITY	964	285	679	5
TOTAL, 1ST 130 INSTS.	284,645	195,062	89,583	16,258
131 LEHIGH UNIVERSITY	963	604	359	23
132 DUKE UNIVERSITY	961	870	91	251
133 CALIFORNIA INSTITUTE OF TECHNOLOGY	946	946	0	205
134 NEW JERSEY INSTITUTE OF TECHNOLOGY	940	181	759	0
135 WORCESTER POLYTECHNIC INSTITUTE	932	251	681	4
136 CUNY CITY COLLEGE	928	422	506	33
137 NEW YORK INSTITUTE OF TECHNOLOGY	920	245	675	0
138 BRIGHAM YOUNG UNIVERSITY	920	579	341	26
139 GEORGIA STATE UNIVERSITY	909	548	361	14
140 NORTHERN ILLINOIS UNIVERSITY	906	565	341	3
TOTAL, 1ST 140 INSTS.	293,970	200,273	93,697	16,817
141 SOUTHERN METHODIST UNIVERSITY	892	333	559	10
142 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	878	564	314	110
143 UNIVERSITY OF CALIF AT SAN FRANCISCO	876	848	28	601
144 LOYOLA UNIVERSITY OF CHICAGO	872	416	456	26
145 OHIO UNIVERSITY	864	755	109	6
146 SUNY - ALBANY	843	602	241	36
147 UNIV OF TEXAS AT DALLAS	842	487	355	17
148 UNIVERSITY OF WYOMING	835	794	41	12
149 HOWARD UNIVERSITY	831	643	188	34
150 MEMPHIS STATE UNIVERSITY	829	425	404	3
TOTAL, 1ST 150 INSTS.	302,532	206,140	96,392	17,672

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TABLE E-3. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
151 UNIVERSITY OF CALIF AT RIVERSIDE	817	791	26	82
152 UNIVERSITY OF CENTRAL FLORIDA	814	274	540	0
153 ST LOUIS UNIVERSITY	804	440	364	38
154 NEW MEXICO STATE UNIVERSITY	802	629	173	14
155 KENT STATE UNIVERSITY	794	518	276	7
156 THE UNIVERSITY OF ALABAMA	782	637	145	13
157 UNIVERSITY OF OREGON	779	726	53	75
158 WICHITA STATE UNIVERSITY	774	319	455	0
159 UNIVERSITY OF IDAHO	771	483	288	16
160 UNIVERSITY OF MARYLAND - BALT PROF SCH	761	343	418	70
TOTAL, 1ST 160 INSTS.	310,430	211,300	99,130	17,987
161 ST JOHN'S UNIVERSITY	753	224	529	0
162 BROWN UNIVERSITY	749	699	50	48
163 PORTLAND STATE UNIVERSITY	733	404	329	0
164 VANDERBILT UNIVERSITY	697	634	63	153
165 RICE UNIVERSITY	689	664	25	78
166 WRIGHT STATE UNIVERSITY	677	363	314	12
167 UNIVERSITY OF NOTRE DAME	663	620	43	33
168 UNIVERSITY OF TOLEDO	658	341	317	4
169 UNIVERSITY OF SOUTHWESTERN LOUISIANA	656	424	232	0
170 LOMA LINDA UNIVERSITY	649	359	290	15
TOTAL, 1ST 170 INSTS.	317,354	216,032	101,322	18,330
171 UNIVERSITY OF NEBRASKA - OMAHA	645	240	405	0
172 EAST TEXAS STATE UNIVERSITY	645	253	392	1
173 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	644	316	328	0
174 UNIV OF TEXAS AT EL PASO	644	373	271	4
175 NORTHERN ARIZONA UNIVERSITY	643	416	227	2
176 MARQUETTE UNIVERSITY	639	359	280	11
177 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	634	426	208	51
178 NORTH DAKOTA STATE UNIVERSITY	629	512	117	17
179 UNIVERSITY OF MISSOURI - KANSAS CITY	625	214	411	0
180 US INTERNATIONAL UNIVERSITY	610	343	267	0
TOTAL, 1ST 180 INSTS.	323,712	219,484	104,228	18,416
181 AIR FORCE INSYITUTE OF TECHNOLOGY	583	583	0	0
182 COLORADO SCHOOL OF MINES	582	436	146	0
183 FORDHAM UNIVERSITY	579	275	304	1
184 TUFTS UNIVERSITY	571	470	101	84
185 BALL STATE UNIVERSITY	570	292	278	0
186 FLORIDA ATLANTIC UNIVERSITY	555	179	376	2
187 UNIVERSITY OF SOUTHERN MISSISSIPPI	550	393	157	4
188 UNIVERSITY OF DAYTON	543	170	373	1
189 UNIVERSITY OF DETROIT	541	220	321	4
190 UNIVERSITY OF MISSISSIPPI	540	483	57	27
TOTAL, 1ST 190 INSTS.	329,326	222,985	106,341	18,539
191 YESHIVA UNIVERSITY	538	433	105	255
192 MIAMI UNIVERSITY	536	437	99	4
193 UNIVERSITY OF NEVADA AT RENO	532	390	142	22
194 ATLANTA UNIVERSITY	531	389	142	2
195 EMORY UNIVERSITY	513	415	98	60
196 UNIV OF NORTH CAROLINA AT GREENSBORO	511	219	292	0
197 UNIVERSITY OF MAINE AT ORONO	509	412	97	9
198 UNIVERSITY OF NEW HAMPSHIRE	508	385	123	7
199 MONTANA STATE UNIVERSITY	508	488	20	30
200 UNIVERSITY OF NEW ORLEANS	508	271	237	10
TOTAL, 1ST 200 INSTS.	334,520	226,824	107,696	18,938

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TABLE E-3. -- DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING		TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
201	GEORGE MASON UNIVERSITY	502	124	378	0
202	THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	493	173	320	8
203	UNIVERSITY OF MONTANA	492	442	50	7
204	BOSTON COLLEGE	481	399	82	13
205	BOWLING GREEN STATE UNIVERSITY	475	407	68	3
206	UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	471	399	72	8
207	ILLINOIS STATE UNIVERSITY	466	329	137	2
208	CENTRAL MICHIGAN UNIVERSITY	449	250	199	0
209	SAM HOUSTON STATE UNIVERSITY	445	284	161	0
210	EAST CAROLINA UNIVERSITY	443	262	181	7
	TOTAL, 1ST 210 INSTS.	339,237	229,893	109,344	18,986
211	NOVA UNIVERSITY	436	320	116	0
212	SUNY - COLL OF ENV SCIENCE AND FORESTRY	431	275	156	15
213	UNIVERSITY OF ALASKA AT FAIRBANKS	424	325	99	3
214	OAKLAND UNIVERSITY	402	118	284	0
215	SOUTH DAKOTA STATE UNIVERSITY	397	281	116	1
216	HOFSTRA UNIVERSITY	386	353	33	0
217	THE FIELDING INSTITUTE	380	380	0	0
218	UNIVERSITY OF CALIF AT SANTA CRUZ	375	375	0	33
219	SETON HALL UNIVERSITY	366	127	239	1
220	UNIVERSITY OF NORTH DAKOTA	365	290	75	4
	TOTAL, 1ST 220 INSTS.	343,199	232,737	110,462	19,043
221	UNIVERSITY OF MARYLAND - BALTIMORE CNTY	358	143	215	9
222	CARIBBEAN CTR FOR ADV STD	358	210	148	0
223	MICHIGAN TECHNOLOGICAL UNIVERSITY	342	334	8	0
224	UNION OF EXPERIMENTNG COLLEGES & UNIVS	333	333	0	0
225	CALIF SCH OF PROF PSYCH - SAN DIEGO	322	236	86	0
226	BRANDEIS UNIVERSITY	318	312	6	96
227	DUQUESNE UNIVERSITY	314	117	197	1
228	UNIVERSITY OF PUERTO RICO	310	222	88	0
229	CLARKSON UNIVERSITY	303	249	54	22
230	CALIF SCH OF PROF PSYCH - BERKELEY	300	300	0	0
	TOTAL, 1ST 230 INSTS.	346,457	235,193	111,264	19,171
231	UNIVERSITY OF MISSOURI - ST LOUIS	300	121	179	2
232	DARTMOUTH COLLEGE	292	286	6	42
233	INDIANA STATE UNIVERSITY	290	214	76	3
234	LAMAR UNIVERSITY	289	204	85	1
235	COLLEGE OF WILLIAM AND MARY	285	196	89	7
236	STEPHEN F. AUSTIN STATE UNIVERSITY	268	202	66	0
237	CALIF SCH OF PROF PSYCH - LOS ANGELES	266	249	17	0
238	NEW YORK MEDICAL COLLEGE	264	76	188	29
239	HAHNEMANN UNIVERSITY	257	250	7	11
240	UNIVERSITY OF TULSA	257	139	118	0
	TOTAL, 1ST 240 INSTS.	349,225	237,130	112,095	19,266
241	UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	251	164	87	117
242	UNIV OF TEXAS HLTH SCI CTR AT DALLAS	249	239	10	163
243	UNIVERSITY OF NEBRASKA MEDICAL CENTER	244	133	111	10
244	BAYLOR UNIVERSITY	237	198	39	5
245	IDAHO STATE UNIVERSITY	233	170	63	1
246	CLAREMONT UNIV CENTER & GRADUATE SCHOOL	229	132	97	0
247	UNIVERSITY OF SOUTH ALABAMA	229	132	97	11
248	UNIV OF MED AND DENT OF NEW JERSEY	228	177	51	51
249	EAST TENNESSEE STATE UNIVERSITY	224	89	135	0
250	SOUTH DAKOTA SCHOOL OF MINES AND TECH	223	156	67	3
	TOTAL, 1ST 290 INSTS.	351,572	238,720	112,852	19,627

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TABLE E-3. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

— CONTINUED

INSTITUTIONAL RANKING		TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
251	LOUISIANA TECH UNIVERSITY	213	163	50	1
252	NEW MEXICO INSTITUTE OF MINING AND TECH	209	209	0	2
253	CLARK UNIVERSITY	198	185	13	2
254	SMITH COLLEGE	195	194	1	0
255	THE WRIGHT INSTITUTE	195	163	32	0
256	UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	192	90	102	6
257	BIOLA UNIVERSITY	188	123	65	0
258	PACIFIC GRAD SCHOOL OF PROF PSYCH	178	37	141	0
259	ALFRED UNIVERSITY	178	79	99	1
260	BRYN MAWR COLLEGE	178	80	98	0
	TOTAL, 1ST 260 INSTS.	353,496	240,043	113,453	19,639
261	CALIF SCH OF PROF PSYCH - FRESNO	177	116	61	0
262	WAKE FOREST UNIVERSITY	176	132	44	29
263	NORTHEAST LOUISIANA UNIVERSITY	174	115	59	0
264	TENNESSEE TECHNOLOGICAL UNIVERSITY	174	111	63	0
265	UNIV OF TEXAS MED BRANCH AT GALVESTON	173	138	35	71
266	FULLER THEOLOGICAL SEMINARY	172	170	2	0
267	UNIVERSITY OF SOUTH DAKOTA	169	146	23	3
268	MEDICAL COLLEGE OF GEORGIA	165	114	51	23
269	CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	159	86	73	0
270	UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	159	106	53	38
	TOTAL, 1ST 270 INSTS.	355,194	241,277	113,917	19,803
271	MARSHALL UNIVERSITY	151	111	40	2
272	BAYLOR COLLEGE OF MEDICINE	146	146	0	200
273	UNION COLLEGE(NY)	142	31	111	0
274	GOLDEN GATE UNIVERSITY	139	24	115	0
275	RUSH UNIVERSITY	115	106	9	10
276	CHICAGO SCHOOL OF PROF PSYCH	110	71	39	0
277	ROCKEFELLER UNIVERSITY	106	96	10	237
278	WESLEYAN UNIVERSITY	104	104	0	5
279	TEXAS CHRISTIAN UNIVERSITY	102	77	25	0
280	THE MEDICAL COLLEGE OF PENNSYLVANIA	101	34	67	18
	TOTAL, 1ST 280 INSTS.	356,410	242,077	114,333	20,275
281	WOODS HOLE OCEANOGRAPHIC INSTITUTION	100	100	0	37
282	INSTITUTE OF PAPER CHEMISTRY	100	100	0	2
283	UNIVERSITY OF HEALTH SCIENCES	94	91	3	10
284	OREGON GRADUATE CENTER	89	67	22	13
285	MEDICAL UNIVERSITY OF SOUTH CAROLINA	84	64	20	34
286	UNIFORMED SERV UNIV OF THE HLTH SCIENCES	84	84	0	35
287	UNIVERSITY OF NORTHERN COLORADO	79	73	6	0
288	SUNY - DOWNSTATE MEDICAL CENTER	79	32	47	16
289	UNIVERSITY OF THE PACIFIC	77	77	0	0
290	UNIVERSITY OF NORTHERN IOWA	75	51	24	0
	TOTAL, 1ST 290 INSTS.	357,271	242,816	114,455	20,422
291	MEDICAL COLLEGE OF WISCONSIN	67	62	5	18
292	ALBANY MEDICAL COLLEGE	64	63	1	14
293	EASTERN VIRGINIA MEDICAL SCHOOL	63	51	12	2
294	RAND GRADUATE INSTITUTE POLICY STUDIES	60	36	24	0
295	CUNY LEHMAN COLLEGE	60	39	21	0
296	THOMAS JEFFERSON UNIVERSITY	59	59	0	34
297	MASS COLLEGE OF PHARMACY/ALLIED HEALTH	56	51	5	1
298	UNIVERSITY OF MASSACHUSETTS AT WORCESTER	52	50	2	64
299	TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	50	45	5	12
300	PHILADELPHIA COLL OF PHARMACY AND SCI	47	36	11	0
	TOTAL, 1ST 300 INSTS.	357,849	243,308	114,541	20,567

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TABLE E-9. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING		TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
301	OREGON HEALTH SCIENCES UNIVERSITY	47	44	3	19
302	BAYLOR COLLEGE OF DENTISTRY	46	28	18	0
303	MEDICAL COLLEGE OF OHIO AT TOLEDO	46	34	12	1
304	CREIGHTON UNIVERSITY	46	36	10	3
305	SUNY - UPSTATE MEDICAL CENTER	45	35	10	21
306	ORAL ROBERTS UNIVERSITY	36	22	14	2
307	MEHARRY MEDICAL COLLEGE	36	36	0	2
308	NE OHIO UNIV MED SCHOOL	34	31	3	2
309	ST BONAVENTURE UNIVERSITY	22	12	10	1
310	INSTITUTE OF TEXTILE TECHNOLOGY	20	20	0	0
	TOTAL, 1ST 310 INSTS.	358,227	243,606	114,621	20,618
311	MAYO GRADUATE SCHOOL OF MEDICINE	18	18	0	111
312	CATHOLIC UNIVERSITY OF PUERTO RICO	16	10	6	0
313	PHILA COLLEGE OF OSTEOPATHIC MEDICINE	8	8	0	0
314	SUNY STATE COLLEGE OF OPTOMETRY	7	4	3	0
315	DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0
316	UNIVERSITY OF HEALTH SCIENCES	0	0	0	0
317	MOREHOUSE SCHOOL OF MEDICINE	0	0	0	1
318	CHICAGO COLL OF OSTEO MEDICINE	0	0	0	0
319	UNIVERSITY OF OSTEOPATHIC MEDICINE	0	0	0	0
320	PROVIDENCE COLLEGE	0	0	0	0
	TOTAL, 1ST 320 INSTS.	358,276	243,646	114,630	20,730
321	UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	0	0	0	57
322	WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0
323	PONCE SCHOOL OF MEDICINE	0	0	0	0
324	KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0	3
	TOTAL, 1ST 324 INSTS.	358,276	243,646	114,630	20,790

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-4. -- DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

	INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
	TOTAL, ALL INSTITUTIONS	127,086	81,461	45,625	4,804
1	UNIVERSITY OF SOUTHERN CALIFORNIA	2,333	1,152	1,181	52
2	NEW YORK UNIVERSITY	2,146	672	1,474	40
3	UNIVERSITY OF PITTSBURGH	2,042	991	1,051	37
4	UNIVERSITY OF MINNESOTA	1,991	1,526	465	67
5	UNIVERSITY OF CALIF AT BERKELEY	1,724	1,724	0	142
6	TEXAS WOMAN'S UNIVERSITY	1,694	602	1,092	0
7	UNIVERSITY OF WISCONSIN - MADISON	1,631	1,338	293	72
8	OHIO STATE UNIVERSITY	1,600	1,230	370	35
9	UNIVERSITY OF CALIF AT LOS ANGELES	1,587	1,558	29	131
10	RUTGERS THE STATE UNIVERSITY	1,585	599	986	31
	TOTAL, 1ST 10 INSTS.	18,333	11,392	6,941	607
11	UNIV OF TEXAS AT AUSTIN	1,502	1,123	379	29
12	BOSTON UNIVERSITY	1,475	854	621	18
13	UNIVERSITY OF WASHINGTON	1,387	1,034	353	137
14	UNIV OF NORTH CAROLINA AT CHAPEL HILL	1,323	1,130	193	87
15	WEST VIRGINIA UNIVERSITY	1,293	369	924	7
16	INDIANA UNIVERSITY	1,193	606	587	38
17	UNIVERSITY OF MICHIGAN	1,192	1,064	128	67
18	UNIVERSITY OF ILLINOIS - URBANA	1,169	1,117	52	19
19	UNIVERSITY OF COLORADO	1,157	922	235	67
20	MICHIGAN STATE UNIVERSITY	1,118	829	289	37
	TOTAL, 1ST 20 INSTS.	31,142	20,440	10,702	1,113
21	UNIVERSITY OF CONNECTICUT	1,102	904	198	27
22	CUNY HUNTER COLLEGE	1,080	549	531	0
23	UNIVERSITY OF ILLINOIS AT CHICAGO	1,061	658	403	38
24	COLUMBIA UNIVERSITY MAIN DIVISION	1,043	721	322	83
25	COLUMBIA UNIVERSITY TEACHERS COLLEGE	1,042	363	679	0
26	LONG ISLAND UNIVERSITY	1,031	118	913	0
27	UNIVERSITY OF MARYLAND - COLLEGE PARK	1,027	615	412	14
28	NORTHEASTERN UNIVERSITY	1,024	321	703	6
29	UNIVERSITY OF TENNESSEE AT KNOXVILLE	1,002	713	289	12
30	PENNSYLVANIA STATE UNIVERSITY	1,002	718	284	26
	TOTAL, 1ST 30 INSTS.	41,556	26,120	15,436	1,319
31	TEXAS A & M UNIVERSITY	995	810	185	31
32	UNIVERSITY OF KANSAS	988	709	279	25
33	PACE UNIVERSITY	983	239	744	0
34	PURDUE UNIVERSITY	966	766	200	39
35	SUNY - BUFFALO	954	539	415	24
36	SUNY - STONY BROOK	945	604	341	35
37	UNIVERSITY OF ARIZONA	936	699	237	33
38	UNIVERSITY OF FLORIDA	928	631	297	31
39	UNIVERSITY OF CINCINNATI	926	512	414	16
40	CORNELL UNIVERSITY	921	914	7	83
	TOTAL, 1ST 40 INSTS.	51,098	32,543	18,555	1,636
41	UNIVERSITY OF WISCONSIN - MILWAUKEE	921	421	500	3
42	UNIVERSITY OF OKLAHOMA	903	514	389	11
43	ARIZONA STATE UNIVERSITY	885	490	395	13
44	HARVARD UNIVERSITY	882	856	26	383
45	SAN DIEGO STATE UNIVERSITY	875	500	375	1
46	UNIVERSITY OF HAWAII AT MANOA	873	736	137	4
47	NEW SCHOOL FOR SOCIAL RESEARCH	869	136	733	0
48	UNIVERSITY OF MASSACHUSETTS AT AMHERST	855	527	328	16
49	UNIVERSITY OF IOWA	830	596	234	52
50	WAYNE STATE UNIVERSITY	822	442	380	8
	TOTAL, 1ST 50 INSTS.	59,813	37,761	22,052	2,127

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TABLE E-4. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
51 STANFORD UNIVERSITY	819	732	87	144
52 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	815	756	59	88
53 CUNY GRADUATE SCHOOL AND UNIV CENTER	807	775	32	18
54 CATHOLIC UNIVERSITY OF AMERICA	799	332	467	1
55 VIRGINIA COMMONWEALTH UNIVERSITY	798	528	270	34
56 GEORGE WASHINGTON UNIVERSITY	792	216	576	2
57 UNIVERSITY OF CALIF AT DAVIS	788	753	35	37
58 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	781	472	309	0
59 UNIVERSITY OF SOUTH CAROLINA	775	491	284	13
60 ADELPHI UNIVERSITY	771	212	559	0
TOTAL, 1ST 60 INSTS.	67,758	43,028	24,730	2,464
61 FLORIDA INSTITUTE OF TECHNOLOGY	763	116	647	2
62 UNIVERSITY OF PENNSYLVANIA	745	631	114	98
63 SYRACUSE UNIVERSITY	734	452	282	9
64 UNIV OF TEXAS AT ARLINGTON	732	309	423	4
65 IOWA STATE UNIVERSITY OF SCI & TECH	715	544	171	7
66 FLORIDA STATE UNIVERSITY	710	464	246	1
67 UNIVERSITY OF UTAH	700	485	215	24
68 CASE WESTERN RESERVE UNIVERSITY	698	411	287	37
69 NORTH CAROLINA STATE UNIV AT RALEIGH	655	529	126	15
70 UNIVERSITY OF KENTUCKY	654	435	219	28
TOTAL, 1ST 70 INSTS.	74,864	47,404	27,460	2,691
71 WESTERN MICHIGAN UNIVERSITY	644	292	352	0
72 YALE UNIVERSITY	632	611	21	145
73 JOHNS HOPKINS UNIVERSITY	631	576	55	108
74 VIRGINIA POLYTECHNIC INST AND STATE UNIV	630	493	137	8
75 UNIVERSITY OF CALIF AT SAN FRANCISCO	627	602	25	176
76 UNIVERSITY OF MISSOURI - COLUMBIA	621	417	204	14
77 UNIVERSITY OF DENVER	620	479	141	10
78 TEMPLE UNIVERSITY	619	392	227	36
79 UNIVERSITY OF GEORGIA	597	511	86	17
80 UNIVERSITY OF MARYLAND - BALT PROF SCH	596	248	348	22
TOTAL, 1ST 80 INSTS.	81,081	52,025	29,056	3,227
81 LOYOLA UNIVERSITY OF CHICAGO	575	246	329	10
82 LOUISIANA STATE UNIVERSITY SYSTEM	546	403	143	12
83 COLORADO STATE UNIVERSITY	533	382	151	1
84 NORTHWESTERN UNIVERSITY	511	452	59	33
85 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	506	302	204	31
86 UNIVERSITY OF SOUTH FLORIDA	506	288	218	0
87 UNIVERSITY OF CHICAGO	502	492	10	48
88 UNIVERSITY OF VIRGINIA	498	435	63	32
89 NORTHERN ILLINOIS UNIVERSITY	491	258	233	1
90 FAIRLEIGH DICKINSON UNIVERSITY	486	101	385	0
TOTAL, 1ST 90 INSTS.	86,235	55,384	30,851	3,421
91 UNIVERSITY OF NEW MEXICO	470	267	203	5
92 AMERICAN UNIVERSITY	469	154	315	2
93 ST LOUIS UNIVERSITY	452	199	253	9
94 GEORGETOWN UNIVERSITY	438	286	152	13
95 NORTH TEXAS STATE UNIVERSITY	436	247	189	1
96 SUNY - BINGHAMTON	431	234	197	2
97 UNIVERSITY OF DELAWARE	425	238	187	7
98 UNIVERSITY OF LOUISVILLE	423	243	180	5
99 SOUTHERN ILLINOIS UNIV AT CARBONDALE	422	344	78	0
100 GEORGIA STATE UNIVERSITY	417	234	183	3
TOTAL, 1ST 100 INSTS.	90,618	57,830	32,788	3,468

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TABLE E-4. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
101 UNIVERSITY OF HOUSTON-UNIVERSITY PARK	416	210	206	5
102 UNIVERSITY OF RHODE ISLAND	412	251	161	0
103 KANSAS STATE UNIV OF AGR & APPLIED SCI	411	233	78	10
104 UNIVERSITY OF AKRON	410	181	229	4
105 KENT STATE UNIVERSITY	407	239	168	1
106 UNIVERSITY OF MIAMI	405	292	113	10
107 DE PAUL UNIVERSITY	394	158	236	0
108 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	391	337	54	3
109 MEMPHIS STATE UNIVERSITY	364	202	162	1
110 OREGON STATE UNIVERSITY	363	319	44	14
TOTAL, 1ST 110 INSTS.	94,591	60,352	34,239	3,516
111 WASHINGTON STATE UNIVERSITY	363	296	67	7
112 HOWARD UNIVERSITY	361	257	104	14
113 GEORGIA INSTITUTE OF TECHNOLOGY	360	272	88	2
114 OLD DOMINION UNIVERSITY	359	142	217	0
115 UNIVERSITY OF NEBRASKA - LINCOLN	358	286	72	7
116 UNIVERSITY OF CALIF AT IRVINE	355	341	14	37
117 UNIVERSITY OF CALIF AT SAN DIEGO	355	331	24	78
118 TULANE UNIVERSITY OF LOUISIANA	354	266	88	5
119 ILLINOIS INSTITUTE OF TECHNOLOGY	351	71	280	3
120 LOMA LINDA UNIVERSITY	350	160	190	2
TOTAL, 1ST 120 INSTS.	98,157	62,774	35,383	3,671
121 UNIVERSITY OF LOWELL	347	125	222	3
122 ST JOHN'S UNIVERSITY	346	111	235	0
123 PORTLAND STATE UNIVERSITY	342	197	145	0
124 VILLANOVA UNIVERSITY	339	63	276	0
125 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	337	145	192	0
126 UNIVERSITY OF NEBRASKA - OMAHA	332	137	195	0
127 DUKE UNIVERSITY	327	296	31	60
128 WICHITA STATE UNIVERSITY	326	141	185	0
129 UNIV OF TEXAS AT DALLAS	319	181	138	6
130 OKLAHOMA STATE UNIVERSITY	317	262	55	5
TOTAL, 1ST 130 INSTS.	101,489	64,432	37,057	3,745
131 UNIV OF NORTH CAROLINA AT GREENSBORO	[illegible]	134	183	0
132 UNIVERSITY OF CALIF AT SANTA BARBARA	313	302	11	23
133 THE UNIVERSITY OF ALABAMA	313	235	78	1
134 YESHIVA UNIVERSITY	308	249	59	101
135 NEW YORK INSTITUTE OF TECHNOLOGY	305	58	247	0
136 RENSSELAER POLYTECHNIC INSTITUTE	303	214	89	6
137 WASHINGTON UNIVERSITY	303	261	42	84
138 UNIVERSITY OF ROCHESTER	298	254	44	48
139 SUNY - ALBANY	294	191	103	4
140 US INTERNATIONAL UNIVERSITY	291	168	123	0
TOTAL, 1ST 140 INSTS.	104,534	66,498	38,036	4,012
141 BALL STATE UNIVERSITY	289	145	144	0
142 TUFTS UNIVERSITY	286	235	51	31
143 TEXAS TECH UNIVERSITY	283	222	61	9
144 OHIO UNIVERSITY	280	238	42	1
145 WRIGHT STATE UNIVERSITY	278	146	132	1
146 CLEMSON UNIVERSITY	277	221	56	3
147 CARNEGIE-MELLON UNIVERSITY	273	229	44	19
148 UNIVERSITY OF MISSOURI - KANSAS CITY	272	76	196	0
149 SETON HALL UNIVERSITY	270	98	172	0
150 CUNY CITY COLLEGE	262	134	128	3
TOTAL, 1ST 150 INSTS.	107,304	68,242	39,062	4,073

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TABLE E-4. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

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INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
151 CARIBBEAN CTR FOR ADV STD	260	154	106	0
152 BRIGHAM YOUNG UNIVERSITY	259	153	106	2
153 UNIVERSITY OF SOUTHERN MISSISSIPPI	256	180	76	2
154 CLEVELAND STATE UNIVERSITY	256	122	134	0
155 PRINCETON UNIVERSITY	251	251	0	26
156 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	250	172	78	15
157 NORTHERN ARIZONA UNIVERSITY	249	165	84	1
158 EMORY UNIVERSITY	248	182	66	15
159 ATLANTA UNIVERSITY	247	186	61	0
160 UNIVERSITY OF OREGON	246	227	19	12
TOTAL, 1ST 160 INSTS.	109,826	70,014	39,812	4,144
161 GEORGE MASON UNIVERSITY	243	70	173	0
162 UNIVERSITY OF CALIF AT RIVERSIDE	241	232	9	13
163 EAST CAROLINA UNIVERSITY	240	137	103	0
164 UNIV OF TEXAS AT EL PASO	238	91	147	0
165 ILLINOIS STATE UNIVERSITY	237	171	66	1
166 UNIVERSITY OF CENTRAL FLORIDA	237	96	141	0
167 UTAH STATE UNIVERSITY	235	199	36	4
168 AUBURN UNIVERSITY	234	175	59	2
169 MIAMI UNIVERSITY	234	181	53	2
170 FORDHAM UNIVERSITY	227	137	90	0
TOTAL, 1ST 170 INSTS.	112,192	71,503	40,689	4,168
171 MARQUETTE UNIVERSITY	226	132	94	1
172 BOSTON COLLEGE	223	179	44	2
173 STEVENS INSTITUTE OF TECHNOLOGY	221	56	165	1
174 UNIVERSITY OF ARKANSAS	221	176	45	4
175 UNIVERSITY OF SANTA CLARA	220	14	206	0
176 BROWN UNIVERSITY	219	203	16	15
177 VANDERBILT UNIVERSITY	218	195	23	32
178 MISSISSIPPI STATE UNIVERSITY	215	180	35	1
179 EAST TEXAS STATE UNIVERSITY	211	83	128	0
180 DREXEL UNIVERSITY	209	82	127	1
TOTAL, 1ST 180 INSTS.	114,375	72,103	41,572	4,225
181 UNIVERSITY OF MISSISSIPPI	206	169	37	2
182 SOUTHERN METHODIST UNIVERSITY	204	122	82	0
183 THE FIELDING INSTITUTE	200	200	0	0
184 POLYTECHNIC INSTITUTE OF NEW YORK	198	34	164	1
185 UNIVERSITY OF SOUTHWESTERN LOUISIANA	189	91	98	0
186 CENTRAL MICHIGAN UNIVERSITY	189	113	76	0
187 NOVA UNIVERSITY	189	121	68	0
188 UNIVERSITY OF NOTRE DAME	188	174	14	8
189 NEW MEXICO STATE UNIVERSITY	187	136	51	2
190 HOFSTRA UNIVERSITY	186	172	14	0
TOTAL, 1ST 190 INSTS.	116,311	74,135	42,176	4,238
191 CALIF SCH OF PROF PSYCH - LOS ANGELES	184	173	11	0
192 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	184	73	111	0
193 UNIVERSITY OF NEW HAMPSHIRE	184	137	47	1
194 UNIVERSITY OF DETROIT	183	60	123	1
195 UNIVERSITY OF NEW ORLEANS	182	112	70	2
196 UNIVERSITY OF MONTANA	181	159	22	2
197 LEHIGH UNIVERSITY	181	110	71	4
198 CALIF SCH OF PROF PSYCH - SAN DIEGO	177	130	47	0
199 BOWLING GREEN STATE UNIVERSITY	176	153	23	0
200 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	174	98	76	30
TOTAL, 1ST 200 INSTS.	118,117	75,360	42,777	4,278

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TABLE E-4. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
201 UNION OF EXPERIMENTNG COLLEGES & UNIVS	174	174	0	0
202 RICE UNIVERSITY	172	169	3	17
203 UNIVERSITY OF MAINE AT ORONO	170	126	44	1
204 NEW JERSEY INSTITUTE OF TECHNOLOGY	170	30	140	0
205 UNIVERSITY OF NEVADA AT RENO	170	123	47	6
206 SMITH COLLEGE	167	167	0	0
207 NEW YORK MEDICAL COLLEGE	165	43	122	6
208 UNIVERSITY OF WYOMING	164	151	13	2
209 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	161	70	91	3
210 CALIF SCH OF PROF PSYCH - BERKELEY	155	155	0	0
TOTAL, 1ST 210 INSTS.	119,789	76,548	43,237	4,313
211 NORTH DAKOTA STATE UNIVERSITY	153	113	40	4
212 UNIVERSITY OF TOLEDO	150	78	72	0
213 UNIVERSITY OF IDAHO	149	95	54	1
214 UNIVERSITY OF SOUTH ALABAMA	143	72	71	3
215 UNIVERSITY OF MISSOURI - ST LOUIS	143	69	74	0
216 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	142	58	84	2
217 DUQUESNE UNIVERSITY	140	53	87	1
218 FLORIDA ATLANTIC UNIVERSITY	140	62	78	3
219 UNIVERSITY OF NEBRASKA MEDICAL CENTER	138	69	69	2
220 CALIFORNIA INSTITUTE OF TECHNOLOGY	137	137	0	30
TOTAL, 1ST 220 INSTS.	121,220	77,354	43,866	4,358
221 WORCESTER POLYTECHNIC INSTITUTE	136	40	96	3
222 BRYN MAWR COLLEGE	135	57	78	0
223 HAHNEMANN UNIVERSITY	135	128	7	3
224 SAM HOUSTON STATE UNIVERSITY	135	76	59	0
225 UNIVERSITY OF MISSOURI - ROLLA	134	92	42	1
226 UNIVERSITY OF CALIF AT SANTA CRUZ	129	129	0	5
227 MONTANA STATE UNIVERSITY	128	120	8	3
228 BRANDEIS UNIVERSITY	125	121	4	23
229 UNIVERSITY OF ALASKA AT FAIRBANKS	124	100	24	0
230 UNIVERSITY OF NORTH DAKOTA	120	90	30	1
TOTAL, 1ST 230 INSTS.	122,521	78,307	44,214	4,397
231 UNIV OF MED AND DENT OF NEW JERSEY	119	88	31	22
232 COLORADO SCHOOL OF MINES	118	84	34	0
233 SOUTH DAKOTA STATE UNIVERSITY	117	54	63	0
234 UNIVERSITY OF DAYTON	117	46	71	1
235 PACIFIC GRAD SCHOOL OF PROF PSYCH	116	28	88	0
236 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	115	109	6	48
237 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	114	66	48	8
238 OAKLAND UNIVERSITY	111	40	71	0
239 SUNY - COLL OF ENV SCIENCE AND FORESTRY	111	70	41	0
240 MEDICAL COLLEGE OF GEORGIA	111	72	39	5
TOTAL, 1ST 240 INSTS.	123,670	78,964	44,706	4,481
241 THE WRIGHT INSTITUTE	107	89	18	0
242 UNIVERSITY OF PUERTO RICO	106	86	20	0
243 INDIANA STATE UNIVERSITY	105	66	39	1
244 UNIV OF TEXAS MED BRANCH AT GALVESTON	104	70	34	23
245 COLLEGE OF WILLIAM AND MARY	103	68	35	1
246 LAMAR UNIVERSITY	91	61	30	0
247 EAST TENNESSEE STATE UNIVERSITY	91	33	58	0
248 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	89	47	42	6
249 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	89	47	42	6
250 BIOLA UNIVERSITY	86	49	37	0
TOTAL, 1ST 250 INSTS.	124,641	79,580	45,061	4,506

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TABLE E-4. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
251 WAKE FOREST UNIVERSITY	86	63	23	5
252 BAYLOR UNIVERSITY	85	70	15	0
253 MARSHALL UNIVERSITY	84	56	28	1
254 RUSH UNIVERSITY	84	76	8	3
255 CLARK UNIVERSITY	83	78	5	1
256 IDAHO STATE UNIVERSITY	82	63	19	0
257 STEPHEN F. AUSTIN STATE UNIVERSITY	81	65	16	0
258 DARTMOUTH COLLEGE	79	77	2	11
259 UNIVERSITY OF TULSA	77	39	38	0
260 CALIF SCH OF PROF PSYCH - FRESNO	73	45	28	0
TOTAL, 1ST 260 INSTS.	125,455	80,212	45,243	4,527
261 UNIVERSITY OF SOUTH DAKOTA	72	62	10	1
262 THE MEDICAL COLLEGE OF PENNSYLVANIA	72	18	54	7
263 US NAVAL POSTGRADUATE SCHOOL	70	70	0	3
264 NORTHEAST LOUISIANA UNIVERSITY	65	47	18	0
265 MICHIGAN TECHNOLOGICAL UNIVERSITY	57	55	2	0
266 FULLER THEOLOGICAL SEMINARY	56	54	2	0
267 ALFRED UNIVERSITY	53	31	22	0
268 CHICAGO SCHOOL OF PROF PSYCH	52	35	17	0
269 LOUISIANA TECH UNIVERSITY	51	33	18	0
270 GOLDEN GATE UNIVERSITY	51	11	40	0
TOTAL, 1ST 270 INSTS.	126,054	80,628	45,426	4,538
271 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	47	47	0	7
272 UNION COLLEGE(NY)	46	9	37	0
273 TEXAS CHRISTIAN UNIVERSITY	44	35	9	0
274 CLARKSON UNIVERSITY	40	32	8	4
275 UNIVERSITY OF NORTHERN IOWA	39	27	12	0
276 UNIVERSITY OF THE PACIFIC	39	39	0	0
277 NEW MEXICO INSTITUTE OF MINING AND TECH	37	37	0	0
278 EASTERN VIRGINIA MEDICAL SCHOOL	37	31	6	1
279 ROCKEFELLER UNIVERSITY	36	33	3	65
280 TENNESSEE TECHNOLOGICAL UNIVERSITY	34	13	21	0
TOTAL, 1ST 280 INSTS.	126,453	80,931	45,522	4,615
281 BAYLOR COLLEGE OF MEDICINE	34	34	0	51
282 UNIVERSITY OF HEALTH SCIENCES	33	31	2	2
283 WESLEYAN UNIVERSITY	33	33	0	1
284 THOMAS JEFFERSON UNIVERSITY	31	31	0	16
285 MEDICAL UNIVERSITY OF SOUTH CAROLINA	29	21	8	6
286 SOUTH DAKOTA SCHOOL OF MINES AND TECH	29	20	9	2
287 MEDICAL COLLEGE OF WISCONSIN	27	25	2	5
288 SUNY - DOWNSTATE MEDICAL CENTER	26	9	17	2
289 CUNY LEHMAN COLLEGE	25	17	8	0
290 WOODS HOLE OCEANOGRAPHIC INSTITUTION	25	25	0	9
TOTAL, 1ST 290 INSTS.	126,748	81,177	45,568	4,709
291 UNIVERSITY OF NORTHERN COLORADO	24	22	2	0
292 ORAL ROBERTS UNIVERSITY	23	12	11	1
293 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	22	22	0	20
294 MEHARRY MEDICAL COLLEGE	22	22	0	1
295 ALBANY MEDICAL COLLEGE	21	20	1	2
296 OREGON HEALTH SCIENCES UNIVERSITY	20	19	1	5
297 SUNY - UPSTATE MEDICAL CENTER	19	13	6	10
298 AIR FORCE INSTITUTE OF TECHNOLOGY	19	19	0	0
299 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	17	15	2	3
300 MEDICAL COLLEGE OF OHIO AT TOLEDO	17	12	5	0
TOTAL, 1ST 300 INSTS.	126,949	81,353	45,596	4,751

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TABLE E-4. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

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INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
301 MASS COLLEGE OF PHARMACY/ALLIED HEALTH	17	16	1	0
302 CATHOLIC UNIVERSITY OF PUERTO RICO	15	9	6	0
303 NE OHIO UNIV MED SCHOOL	15	13	2	0
304 PHILADELPHIA COLL OF PHARMACY AND SCI	14	8	6	0
305 OREGON GRADUATE CENTER	13	11	2	3
306 INSTITUTE OF PAPER CHEMISTRY	13	13	0	0
307 BAYLOR COLLEGE OF DENTISTRY	12	6	6	0
308 CREIGHTON UNIVERSITY	12	11	1	1
309 ST BONAVENTURE UNIVERSITY	8	5	3	0
310 RAND GRADUATE INSTITUTE POLICY STUDIES	7	6	1	0
TOTAL, 1ST 310 INSTS.	127,075	81,451	45,624	4,755
311 SUNY STATE COLLEGE OF OPTOMETRY	3	2	1	0
312 MAYO GRADUATE SCHOOL OF MEDICINE	3	3	0	28
313 INSTITUTE OF TEXTILE TECHNOLOGY	3	3	0	0
314 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	2	2	0	0
315 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0	0
316 PROVIDENCE COLLEGE	0	0	0	0
317 UNIVERSITY OF HEALTH SCIENCES	0	0	0	0
318 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0
319 MOREHOUSE SCHOOL OF MEDICINE	0	0	0	0
320 UNIVERSITY OF OSTEOPATHIC MEDICINE	0	0	0	0
TOTAL, 1ST 320 INSTS.	127,086	81,461	45,625	4,783
321 CHICAGO COLL OF OSTEO MEDICINE	0	0	0	0
322 UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	0	0	0	21
323 PONCE SCHOOL OF MEDICINE	0	0	0	0
324 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0
TOTAL, 1ST 324 INSTS.	127,086	81,461	45,625	4,804

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-9. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

	INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
	TOTAL, ALL INSTITUTIONS	10,846	5,998	4,848
1	UNIVERSITY OF SOUTHERN CALIFORNIA	710	188	522
2	HOWARD UNIVERSITY	3[illegible]	304	95
3	ATLANTA UNIVERSITY	337	240	97
4	LONG ISLAND UNIVERSITY	230	32	198
5	NEW YORK UNIVERSITY	223	78	145
6	RUTGERS THE STATE UNIVERSITY	201	48	153
7	UNIVERSITY OF PITTSBURGH	188	100	88
8	CUNY HUNTER COLLEGE	160	76	84
9	NORTHEASTERN UNIVERSITY	148	33	115
10	UNIV OF NORTH CAROLINA AT CHAPEL HILL	148	116	32
	TOTAL, 1ST 10 INSTS.	2,744	1,215	1,529
11	UNIVERSITY OF MARYLAND - COLLEGE PARK	148	83	65
12	OHIO STATE UNIVERSITY	141	116	25
13	UNIVERSITY OF CALIF AT BERKELEY	134	134	0
14	NORTH CAROLINA STATE UNIV AT RALEIGH	132	100	32
15	DE PAUL UNIVERSITY	126	60	66
16	TEXAS WOMAN'S UNIVERSITY	125	37	88
17	CUNY CITY COLLEGE	122	43	79
18	WAYNE STATE UNIVERSITY	119	54	65
19	UNIVERSITY OF CINCINNATI	116	64	52
20	UNIVERSITY OF MICHIGAN	112	107	5
	TOTAL, 1ST 20 INSTS.	4,019	2,013	2,006
21	COLUMBIA UNIVERSITY TEACHERS COLLEGE	107	38	69
22	FLORIDA INSTITUTE OF TECHNOLOGY	105	5	100
23	NEW SCHOOL FOR SOCIAL RESEARCH	101	13	88
24	TEMPLE UNIVERSITY	101	71	30
25	UNIVERSITY OF TENNESSEE AT KNOXVILLE	98	64	34
26	VIRGINIA COMMONWEALTH UNIVERSITY	97	46	51
27	MICHIGAN STATE UNIVERSITY	96	73	23
28	UNIVERSITY OF ARIZONA	96	21	75
29	UNIVERSITY OF WISCONSIN - MILWAUKEE	90	48	42
30	GEORGE WASHINGTON UNIVERSITY	89	20	69
	TOTAL, 1ST 30 INSTS.	4,999	2,412	2,587
31	UNIVERSITY OF CALIF AT LOS ANGELES	89	88	1
32	NEW YORK INSTITUTE OF TECHNOLOGY	88	9	79
33	UNIVERSITY OF SOUTH CAROLINA	88	34	54
34	PURDUE UNIVERSITY	86	56	30
35	UNIVERSITY OF ILLINOIS AT CHICAGO	84	30	54
36	GEORGIA INSTITUTE OF TECHNOLOGY	83	56	27
37	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	83	79	4
38	WESTERN MICHIGAN UNIVERSITY	83	21	62
39	UNIV OF TEXAS AT AUSTIN	80	49	31
40	FLORIDA STATE UNIVERSITY	77	54	23
	TOTAL, 1ST 40 INSTS.	5,840	2,888	2,952
41	MEMPHIS STATE UNIVERSITY	76	22	54
42	COLUMBIA UNIVERSITY MAIN DIVISION	75	49	26
43	SUNY - STONY BROOK	75	58	17
44	UNIVERSITY OF COLORADO	75	44	31
45	CUNY GRADUATE SCHOOL AND UNIV CENTER	73	69	4
46	UNIVERSITY OF OKLAHOMA	70	36	34
47	UNIVERSITY OF GEORGIA	70	57	13
48	CATHOLIC UNIVERSITY OF AMERICA	68	25	43
49	HARVARD UNIVERSITY	67	64	3
50	UNIVERSITY OF FLORIDA	67	50	17
	TOTAL, 1ST 50 INSTS.	6,556	3,362	3,194

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TABLE E-5. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
51 ILLINOIS INSTITUTE OF TECHNOLOGY	66	10	56
52 PENNSYLVANIA STATE UNIVERSITY	64	39	25
53 PACE UNIVERSITY	63	13	50
54 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	59	29	30
55 OLD DOMINION UNIVERSITY	57	21	36
56 UNIVERSITY OF ILLINOIS - URBANA	57	52	5
57 STANFORD UNIVERSITY	57	55	2
58 UNIVERSITY OF SOUTHERN MISSISSIPPI	56	46	10
59 BOSTON UNIVERSITY	56	36	20
60 CARNEGIE-MELLON UNIVERSITY	56	54	2
TOTAL, 1ST 60 INSTS.	7,147	3,717	3,430
61 MISSISSIPPI STATE UNIVERSITY	54	46	8
62 LOUISIANA STATE UNIVERSITY SYSTEM	52	40	12
63 UNIVERSITY OF CONNECTICUT	52	46	6
64 CORNELL UNIVERSITY	50	50	0
65 WEST VIRGINIA UNIVERSITY	50	14	36
66 UNIVERSITY OF MISSOURI - COLUMBIA	50	37	13
67 AMERICAN UNIVERSITY	49	22	27
68 IOWA STATE UNIVERSITY OF SCI & TECH	49	49	0
69 CASE WESTERN RESERVE UNIVERSITY	48	32	16
70 SUNY - BUFFALO	48	18	30
TOTAL, 1ST 70 INSTS.	7,649	4,071	3,578
71 UNIVERSITY OF MINNESOTA	47	38	9
72 GEORGIA STATE UNIVERSITY	46	24	22
73 UNIVERSITY OF DELAWARE	45	32	13
74 UNIVERSITY OF DETROIT	45	11	34
75 SOUTHERN ILLINOIS UNIV AT CARBONDALE	43	37	6
76 ADELPHI UNIVERSITY	43	19	24
77 LOYOLA UNIVERSITY OF CHICAGO	42	16	26
78 UNIVERSITY OF KENTUCKY	42	32	10
79 ST LOUIS UNIVERSITY	42	15	27
80 JOHNS HOPKINS UNIVERSITY	42	35	7
TOTAL, 1ST 80 INSTS.	8,086	4,330	3,756
81 UNIVERSITY OF MASSACHUSETTS AT AMHERST	42	29	13
82 UNIVERSITY OF SOUTH FLORIDA	41	23	18
83 UNIVERSITY OF HOUSTON-UNIVERSITY PARK	41	12	29
84 FORDHAM UNIVERSITY	40	15	25
85 UNIV OF TEXAS AT ARLINGTON	38	18	20
86 FAIRLEIGH DICKINSON UNIVERSITY	38	5	33
87 UNIVERSITY OF CHICAGO	37	35	2
88 UNIVERSITY OF PENNSYLVANIA	37	28	9
89 POLYTECHNIC INSTITUTE OF NEW YORK	37	8	29
90 THE UNIVERSITY OF ALABAMA	36	25	11
TOTAL, 1ST 90 INSTS.	8,473	4,528	3,945
91 UNIVERSITY OF WISCONSIN - MADISON	36	35	1
92 ARIZONA STATE UNIVERSITY	35	22	13
93 UNIVERSITY OF NEW ORLEANS	34	17	17
94 UNIVERSITY OF LOUISVILLE	33	24	9
95 ST JOHN'S UNIVERSITY	33	12	21
96 LOMA LINDA UNIVERSITY	33	17	16
97 UNIVERSITY OF KANSAS	32	28	4
98 INDIANA UNIVERSITY	32	18	14
99 UNIVERSITY OF WASHINGTON	32	29	3
100 YALE UNIVERSITY	32	32	0
TOTAL, 1ST 100 INSTS.	8,805	4,762	4,043

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TABLE E-5. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
101 UNIVERSITY OF DENVER	32	24	8
102 TULANE UNIVERSITY OF LOUISIANA	31	25	6
103 BOWLING GREEN STATE UNIVERSITY	30	25	5
104 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	29	10	19
105 RENSSELAER POLYTECHNIC INSTITUTE	29	19	10
106 UNIVERSITY OF NEBRASKA - OMAHA	29	13	16
107 WASHINGTON UNIVERSITY	28	24	4
108 WRIGHT STATE UNIVERSITY	28	20	8
109 NOVA UNIVERSITY	28	23	5
110 UNIVERSITY OF CENTRAL FLORIDA	28	9	19
TOTAL, 1ST 110 INSTS.	9,097	4,954	4,143
111 UNIVERSITY OF MISSISSIPPI	28	21	7
112 MEHARRY MEDICAL COLLEGE	27	27	0
113 EMORY UNIVERSITY	27	21	6
114 AUBURN UNIVERSITY	26	18	8
115 SYRACUSE UNIVERSITY	26	17	9
116 VILLANOVA UNIVERSITY	26	0	26
117 CLEVELAND STATE UNIVERSITY	26	5	21
118 UNIVERSITY OF AKRON	26	10	16
119 SAN DIEGO STATE UNIVERSITY	25	13	12
120 NORTHWESTERN UNIVERSITY	24	21	3
TOTAL, 1ST 120 INSTS.	9,358	5,107	4,251
121 UNIV OF NORTH CAROLINA AT GREENSBORO	24	10	14
122 UNIVERSITY OF ARKANSAS	24	15	9
123 KENT STATE UNIVERSITY	23	19	4
124 TEXAS A & M UNIVERSITY	23	20	3
125 SUNY - BINGHAMTON	23	12	11
126 EAST TEXAS STATE UNIVERSITY	23	7	16
127 PORTLAND STATE UNIVERSITY	22	10	12
128 PRINCETON UNIVERSITY	22	22	0
129 DUKE UNIVERSITY	22	17	5
130 UNIVERSITY OF VIRGINIA	22	19	3
TOTAL, 1ST 130 INSTS.	9,586	5,258	4,328
131 NEW JERSEY INSTITUTE OF TECHNOLOGY	22	5	17
132 NORTH TEXAS STATE UNIVERSITY	22	14	8
133 SAM HOUSTON STATE UNIVERSITY	22	15	7
134 VIRGINIA POLYTECHNIC INST AND STATE UNIV	22	17	5
135 OKLAHOMA STATE UNIVERSITY	21	12	9
136 UNIVERSITY OF RHODE ISLAND	21	14	7
137 NORTHERN ILLINOIS UNIVERSITY	21	16	5
138 UNIVERSITY OF NEW MEXICO	21	8	13
139 WICHITA STATE UNIVERSITY	21	15	6
140 CENTRAL MICHIGAN UNIVERSITY	20	10	10
TOTAL, 1ST 140 INSTS.	9,799	5,384	4,415
141 UNIVERSITY OF DAYTON	20	8	12
142 UNIVERSITY OF IOWA	19	11	8
143 ILLINOIS STATE UNIVERSITY	19	11	8
144 EAST CAROLINA UNIVERSITY	19	7	12
145 CLEMSON UNIVERSITY	19	17	2
146 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	18	4	14
147 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	17	7	10
148 UNIVERSITY OF MARYLAND - BALT PROF SCH	17	7	10
149 UNIVERSITY OF SOUTHWESTERN LOUISIANA	17	7	10
150 UNION OF EXPERIMENTNG COLLEGES & UNIVS	17	17	0
TOTAL, 1ST 150 INSTS.	9,981	5,480	4,501

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TABLE E-5. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
151 US INTERNATIONAL UNIVERSITY	17	9	8
152 STEVENS INSTITUTE OF TECHNOLOGY	17	2	15
153 SETON HALL UNIVERSITY	17	8	9
154 GEORGETOWN UNIVERSITY	16	10	6
155 UNIVERSITY OF SOUTH ALABAMA	16	6	10
156 SUNY - ALBANY	16	10	6
157 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	16	6	10
158 UNIVERSITY OF NEBRASKA - LINCOLN	15	9	6
159 HOFSTRA UNIVERSITY	15	13	2
160 UNIVERSITY OF ROCHESTER	15	12	3
TOTAL, 1ST 160 INSTS.	10,141	5,565	4,576
161 FLORIDA ATLANTIC UNIVERSITY	15	3	12
162 UNIV OF TEXAS AT DALLAS	15	8	7
163 GOLDEN GATE UNIVERSITY	15	1	14
164 UNIVERSITY OF CALIF AT SAN FRANCISCO	15	15	0
165 DREXEL UNIVERSITY	15	4	11
166 UNIVERSITY OF UTAH	14	12	2
167 LAMAR UNIVERSITY	14	8	6
168 UNIVERSITY OF TOLEDO	14	2	12
169 UNIVERSITY OF MISSOURI - ST LOUIS	14	4	10
170 COLORADO SCHOOL OF MINES	13	7	6
TOTAL, 1ST 170 INSTS.	10,285	5,429	4,656
171 EAST TENNESSEE STATE UNIVERSITY	13	6	7
172 KANSAS STATE UNIV OF AGR & APPLIED SCI	13	10	3
173 UNIVERSITY OF MISSOURI - KANSAS CITY	13	5	8
174 UNIVERSITY OF CALIF AT IRVINE	12	12	0
175 TEXAS TECH UNIVERSITY	12	9	3
176 MIAMI UNIVERSITY	11	7	4
177 NEW YORK MEDICAL COLLEGE	11	1	10
178 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	11	4	7
179 THE WRIGHT INSTITUTE	11	6	5
180 UNIVERSITY OF CALIF AT SANTA CRUZ	11	11	0
TOTAL, 1ST 180 INSTS.	10,403	5,700	4,703
181 COLORADO STATE UNIVERSITY	11	4	7
182 WASHINGTON STATE UNIVERSITY	11	8	3
183 GEORGE MASON UNIVERSITY	11	2	9
184 MEDICAL COLLEGE OF GEORGIA	11	8	3
185 NORTHEAST LOUISIANA UNIVERSITY	10	4	6
186 CALIF SCH OF PROF PSYCH - LOS ANGELES	10	9	1
187 UNIVERSITY OF MISSOURI - ROLLA	10	5	5
188 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	10	9	1
189 BOSTON COLLEGE	10	7	3
190 UNIVERSITY OF MIAMI	10	3	7
TOTAL, 1ST 190 INSTS.	10,507	5,759	4,748
191 TUFTS UNIVERSITY	9	7	2
192 UNIVERSITY OF CALIF AT DAVIS	9	9	0
193 VANDERBILT UNIVERSITY	9	8	1
194 BIOLA UNIVERSITY	9	6	3
195 MARSHALL UNIVERSITY	9	6	3
196 SOUTHERN METHODIST UNIVERSITY	9	3	6
197 OHIO UNIVERSITY	9	7	2
198 OAKLAND UNIVERSITY	9	4	5
199 UNIV OF MED AND DENT OF NEW JERSEY	8	3	5
200 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	8	3	5
TOTAL, 1ST 200 INSTS.	10,595	5,815	4,780

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TABLE E-5. -- DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
201 UNIVERSITY OF HAWAII AT MANOA	8	6	2
202 RICE UNIVERSITY	8	8	0
203 UNIVERSITY OF SANTA CLARA	7	0	7
204 UNIVERSITY OF CALIF AT RIVERSIDE	7	6	1
205 NORTHERN ARIZONA UNIVERSITY	7	3	4
206 LOUISIANA TECH UNIVERSITY	7	3	4
207 CALIF SCH OF PROF PSYCH - FRESNO	7	5	2
208 MICHIGAN TECHNOLOGICAL UNIVERSITY	6	6	0
209 UNIVERSITY OF NORTHERN IOWA	6	5	1
210 UNIV OF TEXAS AT EL PASO	6	2	4
TOTAL, 1ST 210 INSTS.	10,664	5,859	4,805
211 FULLER THEOLOGICAL SEMINARY	5	5	1
212 BROWN UNIVERSITY	6	4	2
213 UNIVERSITY OF CALIF AT SAN DIEGO	6	6	0
214 CLARK UNIVERSITY	6	6	0
215 UNIVERSITY OF CALIF AT SANTA BARBARA	6	5	1
216 NEW MEXICO STATE UNIVERSITY	5	5	0
217 UNIVERSITY OF NOTRE DAME	5	3	0
218 TENNESSEE TECHNOLOGICAL UNIVERSITY	5	5	0
219 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	4	2	2
220 OREGON STATE UNIVERSITY	4	3	1
TOTAL, 1ST 220 INSTS.	10,717	5,905	4,812
221 STEPHEN F. AUSTIN STATE UNIVERSITY	4	3	1
222 AIR FORCE INSTITUTE OF TECHNOLOGY	4	4	0
223 THE MEDICAL COLLEGE OF PENNSYLVANIA	4	1	3
224 HAHNEMANN UNIVERSITY	4	4	0
225 UNIVERSITY OF OREGON	4	4	0
226 MARQUETTE UNIVERSITY	4	1	3
227 CALIF SCH OF PROF PSYCH - SAN DIEGO	4	3	1
228 COLLEGE OF WILLIAM AND MARY	4	2	2
229 EASTERN VIRGINIA MEDICAL SCHOOL	4	3	1
230 UNIV OF TEXAS MED BRANCH AT GALVESTON	4	4	0
TOTAL, 1ST 230 INSTS.	10,757	5,934	4,823
231 UNIVERSITY OF PUERTO RICO	4	4	0
232 INDIANA STATE UNIVERSITY	4	2	2
233 UNIVERSITY OF MAINE AT ORONO	3	3	0
234 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	3	2	1
235 UNIVERSITY OF LOWELL	3	1	2
236 MASS COLLEGE OF PHARMACY/ALLIED HEALTH	3	2	1
237 SMITH COLLEGE	3	3	0
238 LEHIGH UNIVERSITY	3	2	1
239 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	3	2	1
240 WORCESTER POLYTECHNIC INSTITUTE	3	0	3
TOTAL, 1ST 240 INSTS.	10,789	5,955	4,834
241 CALIF SCH OF PROF PSYCH - BERKELEY	3	3	0
242 UNIVERSITY OF HEALTH SCIENCES	3	3	0
243 DARTMOUTH COLLEGE	3	3	0
244 CUNY LEHMAN COLLEGE	3	1	2
245 RUSH UNIVERSITY	2	1	1
246 YESHIVA UNIVERSITY	2	2	0
247 BRANDEIS UNIVERSITY	2	2	0
248 NORTH DAKOTA STATE UNIVERSITY	2	2	0
249 UTAH STATE UNIVERSITY	2	0	2
250 UNIVERSITY OF NEVADA AT RENO	2	1	1
TOTAL, 1ST 250 INSTS.	10,813	5,973	4,840

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TABLE E-5. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING		TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
251	MEDICAL UNIVERSITY OF SOUTH CAROLINA	2	2	0
252	WAKE FOREST UNIVERSITY	2	2	0
253	UNIVERSITY OF NORTH DAKOTA	2	2	0
254	BAYLOR UNIVERSITY	1	0	1
255	ORAL ROBERTS UNIVERSITY	1	0	1
256	TEXAS CHRISTIAN UNIVERSITY	1	1	0
257	UNIVERSITY OF WYOMING	1	1	0
258	BALL STATE UNIVERSITY	1	1	0
259	BAYLOR COLLEGE OF DENTISTRY	1	0	1
260	INSTITUTE OF PAPER CHEMISTRY	1	1	0
	TOTAL, 1ST 260 INSTS.	10,826	5,983	4,843
261	MEDICAL COLLEGE OF WISCONSIN	1	1	0
262	IDAHO STATE UNIVERSITY	1	1	0
263	UNIVERSITY OF NEBRASKA MEDICAL CENTER	1	1	0
264	UNIVERSITY OF SOUTH DAKOTA	1	1	0
265	SOUTH DAKOTA STATE UNIVERSITY	1	1	0
266	BRYN MAWR COLLEGE	1	0	1
267	UNIFORMED SERV UNIV OF THE HLTH SCIENCES	1	1	0
268	WESLEYAN UNIVERSITY	1	1	0
269	PACIFIC GRAD SCHOOL OF PROF PSYCH	1	0	1
270	UNIVERSITY OF NORTHERN COLORADO	1	1	0
	TOTAL, 1ST 270 INSTS.	10,836	5,991	4,845
271	UNIVERSITY OF MONTANA	1	1	0
272	CHICAGO SCHOOL OF PROF PSYCH	1	0	1
273	UNIVERSITY OF THE PACIFIC	1	1	0
274	MONTANA STATE UNIVERSITY	1	1	0
275	DUQUESNE UNIVERSITY	1	0	1
276	CLARKSON UNIVERSITY	1	1	0
277	RAND GRADUATE INSTITUTE POLICY STUDIES	1	1	0
278	UNION COLLEGE(KY)	1	0	1
279	SUNY - COLL OF ENV SCIENCE AND FORESTRY	1	1	0
280	UNIVERSITY OF ALASKA AT FAIRBANKS	1	1	0
	TOTAL, 1ST 280 INSTS.	10,846	5,998	4,848
281	THOMAS JEFFERSON UNIVERSITY	0	0	0
282	UNIVERSITY OF IDAHO	0	0	0
283	PHILA COLLEGE OF OSTEOPATHIC MEDICINE	0	0	0
284	PROVIDENCE COLLEGE	0	0	0
285	US NAVAL POSTGRADUATE SCHOOL	0	0	0
286	CHICAGO COLL OF OSTEO MEDICINE	0	0	0
287	PHILADELPHIA COLL OF PHARMACY AND SCI	0	0	0
288	KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0
289	BAYLOR COLLEGE OF MEDICINE	0	0	0
290	UNIVERSITY OF NEW HAMPSHIRE	0	0	0
	TOTAL, 1ST 290 INSTS.	10,846	5,998	4,848
291	OREGON GRADUATE CENTER	0	0	0
292	MOREHOUSE SCHOOL OF MEDICINE	0	0	0
293	INSTITUTE OF TEXTILE TECHNOLOGY	0	0	0
294	SOUTH DAKOTA SCHOOL OF MINES AND TECH	0	0	0
295	UNIVERSITY OF HEALTH SCIENCES	0	0	0
296	CREIGHTON UNIVERSITY	0	0	0
297	ALBANY MEDICAL COLLEGE	0	0	0
298	UNIVERSITY OF MASSACHUSETTS AT WORCESTER	0	0	0
299	TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	0	0	0
300	WOODS HOLE OCEANOGRAPHIC INSTITUTION	0	0	0
	TOTAL, 1ST 300 INSTS.	10,846	5,998	4,848

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TABLE E-5. -- DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING		TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
301	UNIVERSITY OF OSTEOPATHIC MEDICINE	0	0	0
302	SUNY STATE COLLEGE OF OPTOMETRY	0	0	0
303	MEDICAL COLLEGE OF OHIO AT TOLEDO	0	0	0
304	MAYO GRADUATE SCHOOL OF MEDICINE	0	0	0
305	UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	0	0	0
306	UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	0	0	0
307	SUNY - UPSTATE MEDICAL CENTER	0	0	0
308	UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	0	0	0
309	WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0
310	SUNY - DOWNSTATE MEDICAL CENTER	0	0	0
	TOTAL, 1ST 310 INSTS.	10,846	5,998	4,848
311	ST BONAVENTURE UNIVERSITY	0	0	0
312	ROCKEFELLER UNIVERSITY	0	0	0
313	BRIGHAM YOUNG UNIVERSITY	0	0	0
314	NEW MEXICO INSTITUTE OF MINING AND TECH	0	0	0
315	ALFRED UNIVERSITY	0	0	0
316	NE OHIO UNIV MED SCHOOL	0	0	0
317	CARIBBEAN CTR FOR ADV STD	0	0	0
318	THE FIELDING INSTITUTE	0	0	0
319	DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0
320	CALIFORNIA INSTITUTE OF TECHNOLOGY	0	0	0
	TOTAL, 1ST 320 INSTS.	10,846	5,998	4,848
321	CATHOLIC UNIVERSITY OF PUERTO RICO	0	0	0
322	OREGON HEALTH SCIENCES UNIVERSITY	0	0	0
323	PONCE SCHOOL OF MEDICINE	0	0	0
324	UNIVERSITY OF TULSA	0	0	0
	TOTAL, 1ST 324 INSTS.	10,846	5,998	4,848

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-6. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

INSTITUTIONAL RANKING		FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
	TOTAL, ALL INSTITUTIONS	69,601	59,906	9,695	7,542
1	UNIVERSITY OF SOUTHERN CALIFORNIA	1,488	1,196	292	149
2	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	1,365	1,314	51	157
3	UNIVERSITY OF CALIF AT BERKELEY	1,348	1,348	0	283
4	UNIVERSITY OF WISCONSIN - MADISON	1,306	1,239	67	147
5	STANFORD UNIVERSITY	1,224	1,167	57	152
6	OHIO STATE UNIVERSITY	1,190	1,122	68	88
7	UNIV OF TEXAS AT AUSTIN	1,190	1,10.	89	105
8	UNIVERSITY OF MICHIGAN	1,184	1,126	58	99
9	UNIVERSITY OF ILLINOIS - URBANA	1,126	1,110	16	106
10	UNIVERSITY OF MINNESOTA	1,051	985	66	68
	TOTAL, 1ST 10 INSTS.	12,472	11,708	764	1,354
11	UNIVERSITY OF CALIF AT LOS ANGELES	1,000	926	74	172
12	IOWA STATE UNIVERSITY OF SCI & TECH	918	821	97	19
13	MICHIGAN STATE UNIVERSITY	894	756	138	66
14	UNIVERSITY OF PITTSBURGH	872	745	127	60
15	PURDUE UNIVERSITY	866	833	33	102
16	CORNELL UNIVERSITY	858	856	2	141
17	COLUMBIA UNIVERSITY MAIN DIVISION	793	674	119	103
18	PENNSYLVANIA STATE UNIVERSITY	784	676	108	50
19	SUNY - BUFFALO	722	641	81	69
20	UNIVERSITY OF ARIZONA	712	591	121	57
	TOTAL, 1ST 20 INSTS.	20,891	19,227	1,664	2,193
21	RUTGERS THE STATE UNIVERSITY	697	482	215	41
22	TEXAS A & M UNIVERSITY	690	628	62	75
23	UNIVERSITY OF FLORIDA	683	615	68	93
24	UNIVERSITY OF MARYLAND - COLLEGE PARK	670	510	160	60
25	UNIVERSITY OF WASHINGTON	668	545	123	109
26	UNIVERSITY OF HOUSTON-UNIVERSITY PARK	647	423	224	36
27	SUNY - STONY BROOK	644	559	85	80
28	UNIVERSITY OF ILLINOIS AT CHICAGO	641	556	85	83
29	UNIVERSITY OF PENNSYLVANIA	615	544	71	129
30	OREGON STATE UNIVERSITY	605	577	28	14
	TOTAL, 1ST 30 INSTS.	27,451	24,666	2,785	2,913
31	UNIVERSITY OF IOWA	603	559	44	41
32	NORTH CAROLINA STATE UNIV AT RALEIGH	591	531	60	26
33	UNIVERSITY OF CALIF AT DAVIS	590	568	22	58
34	RENSSELAER POLYTECHNIC INSTITUTE	587	551	36	32
35	OKLAHOMA STATE UNIVERSITY	584	560	24	18
36	NORTHEASTERN UNIVERSITY	567	290	277	15
37	HARVARD UNIVERSITY	565	555	10	443
38	VIRGINIA POLYTECHNIC INST AND STATE UNIV	557	529	28	19
39	ILLINOIS INSTITUTE OF TECHNOLOGY	529	224	305	8
40	LOUISIANA STATE UNIVERSITY SYSTEM	508	472	36	42
	TOTAL, 1ST 40 INSTS.	33,132	29,505	3,627	3,615
41	UNIVERSITY OF HAWAII AT MANOA	496	471	25	9
42	ARIZONA STATE UNIVERSITY	494	376	118	31
43	INDIANA UNIVERSITY	489	463	26	73
44	UNIVERSITY OF COLORADO	485	438	47	78
45	GEORGE WASHINGTON UNIVERSITY	483	259	224	11
46	UNIVERSITY OF KANSAS	483	482	1	42
47	NEW YORK UNIVERSITY	481	300	181	60
48	UNIV OF TEXAS AT ARLINGTON	471	396	75	16
49	UNIVERSITY OF MASSACHUSETTS AT AMHERST	469	340	129	9
50	UNIVERSITY OF MISSOURI - COLUMBIA	458	419	39	21
	TOTAL, 1ST 50 INSTS.	37,941	33,449	4,492	3,965

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TABLE E-6. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

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INSTITUTIONAL RANKING	FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
51 CASE WESTERN RESERVE UNIVERSITY	458	408	50	37
52 NORTHWESTERN UNIVERSITY	453	439	14	65
53 UNIVERSITY OF OKLAHOMA	451	387	64	45
54 UNIVERSITY OF CINCINNATI	445	394	51	23
55 KANSAS STATE UNIV OF AGR & APPLIED SCI	442	387	55	20
56 GEORGIA INSTITUTE OF TECHNOLOGY	436	380	56	27
57 UNIVERSITY OF SANTA CLARA	406	57	349	0
58 CUNY GRADUATE SCHOOL AND UNIV CENTER	394	384	10	16
59 OHIO UNIVERSITY	384	356	28	3
60 UNIVERSITY OF GEORGIA	382	367	15	40
TOTAL, 1ST 60 INSTS.	42,192	37,008	5,184	4,241
61 COLORADO STATE UNIVERSITY	377	247	130	28
62 NORTH TEXAS STATE UNIVERSITY	370	246	124	8
63 SYRACUSE UNIVERSITY	363	338	25	19
64 POLYTECHNIC INSTITUTE OF NEW YORK	363	163	200	0
65 HOWARD UNIVERSITY	360	296	64	13
66 UNIVERSITY OF CHICAGO	357	348	9	105
67 PRINCETON UNIVERSITY	357	357	0	73
68 UNIVERSITY OF CONNECTICUT	356	319	37	40
69 BOSTON UNIVERSITY	355	317	38	13
70 UNIVERSITY OF CALIF AT SANTA BARBARA	345	342	3	67
TOTAL, 1ST 70 INSTS.	45,795	39,981	5,814	4,607
71 UNIVERSITY OF NEBRASKA - LINCOLN	343	314	29	27
72 YALE UNIVERSITY	342	335	7	181
73 FLORIDA INSTITUTE OF TECHNOLOGY	342	281	61	0
74 TEXAS TECH UNIVERSITY	338	324	14	24
75 UNIVERSITY OF KENTUCKY	335	302	33	53
76 AMERICAN UNIVERSITY	327	167	160	2
77 WEST VIRGINIA UNIVERSITY	325	306	19	11
78 SOUTHERN ILLINOIS UNIV AT CARBONDALE	323	292	31	7
79 UNIVERSITY OF LOWELL	318	295	23	5
80 STEVENS INSTITUTE OF TECHNOLOGY	315	179	136	11
TOTAL, 1ST 80 INSTS.	49,103	42,716	6,387	4,928
81 CALIFORNIA INSTITUTE OF TECHNOLOGY	312	312	0	71
82 JOHNS HOPKINS UNIVERSITY	308	290	18	124
83 WASHINGTON STATE UNIVERSITY	301	275	26	27
84 UNIVERSITY OF UTAH	299	289	10	75
85 UNIVERSITY OF MIAMI	291	258	33	16
86 UNIVERSITY OF MISSOURI - ROLLA	285	239	46	10
87 MISSISSIPPI STATE UNIVERSITY	285	272	13	3
88 UNIVERSITY OF CALIF AT SAN DIEGO	281	275	6	165
89 WASHINGTON UNIVERSITY	281	261	20	81
90 CARNEGIE-MELLON UNIVERSITY	277	267	10	51
TOTAL, 1ST 90 INSTS.	52,023	45,454	6,569	5,551
91 UTAH STATE UNIVERSITY	274	272	2	13
92 UNIVERSITY OF WISCONSIN - MILWAUKEE	273	191	82	14
93 LEHIGH UNIVERSITY	272	237	35	18
94 UNIVERSITY OF RHODE ISLAND	271	246	25	6
95 US NAVAL POSTGRADUATE SCHOOL	265	265	0	10
96 UNIVERSITY OF SOUTHWESTERN LOUISIANA	260	233	27	0
97 UNIVERSITY OF TENNESSEE AT KNOXVILLE	258	241	17	28
98 NEW YORK INSTITUTE OF TECHNOLOGY	257	187	70	0
99 UNIVERSITY OF SOUTH CAROLINA	249	226	23	21
100 UNIVERSITY OF ROCHESTER	246	238	8	62
TOTAL, 1ST 100 INSTS.	54,648	47,790	6,858	5,723

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TABLE E-6. -- DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
101 WAYNE STATE UNIVERSITY	237	201	36	21
102 UNIVERSITY OF NEW MEXICO	236	201	35	7
103 AUBURN UNIVERSITY	230	221	9	2
104 DREXEL UNIVERSITY	230	156	74	20
105 FLORIDA STATE UNIVERSITY	229	198	31	20
106 UNIVERSITY OF CALIF AT RIVERSIDE	228	226	2	39
107 VANDERBILT UNIVERSITY	221	217	4	52
108 UNIVERSITY OF DELAWARE	218	181	37	16
109 UNIV OF TEXAS AT DALLAS	214	182	32	5
110 OLD DOMINION UNIVERSITY	213	123	90	0
TOTAL, 1ST 110 INSTS.	56,904	49,696	7,208	5,905
111 TULANE UNIVERSITY OF LOUISIANA	210	200	10	11
112 SAN DIEGO STATE UNIVERSITY	209	133	76	9
113 CUNY CITY COLLEGE	208	156	52	22
114 UNIVERSITY OF NOTRE DAME	207	200	7	20
115 CLEMSON UNIVERSITY	207	178	29	3
116 WESTERN MICHIGAN UNIVERSITY	204	168	36	0
117 UNIV OF NORTH CAROLINA AT CHAPEL HILL	200	195	5	52
118 SUNY - ALBANY	199	164	35	2
119 NEW MEXICO STATE UNIVERSITY	198	184	14	6
120 UNIVERSITY OF OREGON	193	181	12	27
TOTAL, 1ST 120 INSTS.	58,939	51,455	7,484	6,079
121 RICE UNIVERSITY	187	186	1	31
122 SOUTHERN METHODIST UNIVERSITY	187	113	74	7
123 BROWN UNIVERSITY	186	180	6	19
124 CATHOLIC UNIVERSITY OF AMERICA	184	111	73	8
125 NEW JERSEY INSTITUTE OF TECHNOLOGY	184	73	111	0
126 EAST TEXAS STATE UNIVERSITY	184	125	59	1
127 ATLANTA UNIVERSITY	183	141	42	2
128 TEMPLE UNIVERSITY	180	144	36	37
129 LOMA LINDA UNIVERSITY	177	141	36	12
130 UNIVERSITY OF ARKANSAS	175	159	16	6
TOTAL, 1ST 130 INSTS.	60,766	52,828	7,938	6,202
131 UNIV OF TEXAS AT EL PASO	174	145	29	2
132 UNIVERSITY OF AKRON	173	146	27	2
133 NEW SCHOOL FOR SOCIAL RESEARCH	162	50	112	0
134 UNIVERSITY OF TOLEDO	158	135	23	3
135 COLORADO SCHOOL OF MINES	158	132	26	0
136 UNIVERSITY OF DENVER	158	152	6	3
137 UNIVERSITY OF CALIF AT IRVINE	156	155	1	34
138 PACE UNIVERSITY	151	28	123	0
139 NORTH DAKOTA STATE UNIVERSITY	141	132	9	4
140 UNIVERSITY OF VIRGINIA	140	131	9	50
TOTAL, 1ST 140 INSTS.	62,337	54,034	8,303	6,302
141 BRIGHAM YOUNG UNIVERSITY	137	98	39	12
142 UNIVERSITY OF WYOMING	136	136	0	5
143 GEORGETOWN UNIVERSITY	128	114	14	19
144 COLUMBIA UNIVERSITY TEACHERS COLLEGE	125	52	73	0
145 ST JOHN'S UNIVERSITY	123	42	81	0
146 THE UNIVERSITY OF ALABAMA	122	119	3	12
147 UNIVERSITY OF LOUISVILLE	121	89	32	9
148 UNIVERSITY OF MISSISSIPPI	120	120	0	14
149 SUNY - BINGHAMTON	116	75	41	6
150 MICHIGAN TECHNOLOGICAL UNIVERSITY	115	113	2	0
TOTAL, 1ST 150 INSTS.	63,580	54,992	8,588	6,379

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TABLE E-6. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

– CONTINUED

	INSTITUTIONAL RANKING	FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
151	WORCESTER POLYTECHNIC INSTITUTE	114	97	17	2
152	CLARKSON UNIVERSITY	113	103	10	14
153	LONG ISLAND UNIVERSITY	113	46	67	0
154	MARQUETTE UNIVERSITY	112	101	11	9
155	UNIVERSITY OF IDAHO	110	90	20	6
156	SOUTH DAKOTA SCHOOL OF MINES AND TECH	109	86	23	0
157	CLEVELAND STATE UNIVERSITY	108	78	30	3
158	LAMAR UNIVERSITY	108	91	17	0
159	KENT STATE UNIVERSITY	108	94	14	3
160	TEXAS WOMAN'S UNIVERSITY	107	52	55	1
	TOTAL, 1ST 160 INSTS.	64,683	55,830	8,852	6,419
161	MONTANA STATE UNIVERSITY	103	96	7	11
162	BRANDEIS UNIVERSITY	103	102	1	28
163	NORTHERN ILLINOIS UNIVERSITY	101	95	6	1
164	UNIVERSITY OF CALIF AT SAN FRANCISCO	96	96	0	143
165	UNIVERSITY OF TULSA	95	62	33	0
166	THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	94	54	40	5
167	TUFTS UNIVERSITY	94	87	7	21
168	VILLANOVA UNIVERSITY	93	93	0	0
169	DUKE UNIVERSITY	91	82	9	61
170	SOUTH DAKOTA STATE UNIVERSITY	90	87	3	1
	TOTAL, 1ST 170 INSTS.	65,642	56,684	8,958	6,693
171	UNIVERSITY OF MAINE AT ORONO	88	85	3	1
172	INDIANA STATE UNIVERSITY	88	75	13	1
173	FLORIDA ATLANTIC UNIVERSITY	87	44	43	0
174	MEMPHIS STATE UNIVERSITY	84	51	33	3
175	SUNY - COLL OF ENV SCIENCE AND FORESTRY	83	57	26	10
176	UNIVERSITY OF DETROIT	79	50	29	4
177	FAIRLEIGH DICKINSON UNIVERSITY	79	66	13	0
178	LOUISIANA TECH UNIVERSITY	74	64	10	2
179	BOWLING GREEN STATE UNIVERSITY	74	69	5	3
180	UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	74	61	13	0
	TOTAL, 1ST 180 INSTS.	66,452	57,306	9,146	6,712
181	CENTRAL MICHIGAN UNIVERSITY	73	47	26	0
182	UNIVERSITY OF NEVADA AT RENO	73	58	15	8
183	PORTLAND STATE UNIVERSITY	73	44	29	0
184	US INTERNATIONAL UNIVERSITY	70	43	27	0
185	NEW MEXICO INSTITUTE OF MINING AND TECH	69	69	0	1
186	UNIVERSITY OF CENTRAL FLORIDA	68	38	30	0
187	TENNESSEE TECHNOLOGICAL UNIVERSITY	66	39	27	0
188	LOYOLA UNIVERSITY OF CHICAGO	66	46	20	15
189	UNIVERSITY OF CALIF AT SANTA CRUZ	65	65	0	12
190	CUNY HUNTER COLLEGE	65	51	14	0
	TOTAL, 1ST 190 INSTS.	67,140	57,806	9,334	6,748
191	THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	64	59	5	44
192	MIAMI UNIVERSITY	63	57	6	1
193	ILLINOIS STATE UNIVERSITY	59	53	6	2
194	UNIVERSITY OF SOUTH FLORIDA	59	48	11	6
195	UNIVERSITY OF NEW HAMPSHIRE	57	57	0	1
196	ST LOUIS UNIVERSITY	57	52	5	22
197	UNIVERSITY OF MISSOURI - KANSAS CITY	57	32	25	0
198	UNIV OF NORTH CAROLINA AT GREENSBORO	56	34	22	0
199	UNIVERSITY OF ALASKA AT FAIRBANKS	53	48	5	1
200	BOSTON COLLEGE	52	44	5	10
	TOTAL, 1ST 200 INSTS.	67,717	58,290	9,427	6,833

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TABLE E-4. -- DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
201 WRIGHT STATE UNIVERSITY	50	41	9	3
202 UNIVERSITY OF DAYTON	49	29	20	0
203 EMORY UNIVERSITY	48	45	3	26
204 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	47	35	12	0
205 CLARK UNIVERSITY	47	46	1	0
206 COLLEGE OF WILLIAM AND MARY	46	40	6	1
207 SAM HOUSTON STATE UNIVERSITY	46	44	2	0
208 UNION OF EXPERIMENTING COLLEGES & UNIVS	46	46	0	0
209 UNIVERSITY OF NEW ORLEANS	44	34	10	7
210 DE PAUL UNIVERSITY	41	25	16	0
TOTAL, 1ST 210 INSTS.	68,181	58,675	9,506	6,870
211 GEORGIA STATE UNIVERSITY	39	30	9	6
212 UNIVERSITY OF MONTANA	39	39	0	2
213 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	38	32	6	13
214 UNIVERSITY OF SOUTHERN MISSISSIPPI	37	34	3	1
215 UNIVERSITY OF MARYLAND - BALT PROF SCH	35	32	3	40
216 NORTHEAST LOUISIANA UNIVERSITY	35	28	7	0
217 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	35	29	6	2
218 FORDHAM UNIVERSITY	34	27	7	1
219 VIRGINIA COMMONWEALTH UNIVERSITY	33	29	4	22
220 DARTMOUTH COLLEGE	33	32	1	10
TOTAL, 1ST 220 INSTS.	68,539	58,987	9,552	6,967
221 UNIVERSITY OF NORTH DAKOTA	32	31	1	1
222 ADELPHI UNIVERSITY	31	23	8	0
223 OAKLAND UNIVERSITY	30	25	5	0
224 YESHIVA UNIVERSITY	30	30	0	63
225 DUQUESNE UNIVERSITY	30	27	3	1
226 WESLEYAN UNIVERSITY	29	29	0	3
227 BAYLOR COLLEGE OF MEDICINE	29	29	0	43
228 EAST TENNESSEE STATE UNIVERSITY	29	15	14	0
229 WOODS HOLE OCEANOGRAPHIC INSTITUTION	29	29	0	9
230 ROCKEFELLER UNIVERSITY	26	26	0	76
TOTAL, 1ST 230 INSTS.	68,834	59,251	9,583	7,163
231 UNIVERSITY OF NEBRASKA MEDICAL CENTER	26	19	7	3
232 BAYLOR UNIVERSITY	25	23	2	2
233 CALIF SCH OF PROF PSYCH - BERKELEY	24	24	0	0
234 GEORGE MASON UNIVERSITY	23	15	8	0
235 SUNY - DOWNSTATE MEDICAL CENTER	23	8	15	7
236 OREGON GRADUATE CENTER	22	20	2	5
237 BRYN MAWR COLLEGE	21	16	5	0
238 AIR FORCE INSTITUTE OF TECHNOLOGY	21	21	0	0
239 UNIVERSITY OF SOUTHERN COLORADO	21	20	1	0
240 CARIBBEAN CTR FOR ADV STD	20	19	1	0
TOTAL, 1ST 240 INSTS.	69,060	59,436	9,624	7,180
241 BALL STATE UNIVERSITY	20	14	6	0
242 NOVA UNIVERSITY	19	18	1	0
243 ALFRED UNIVERSITY	19	16	3	1
244 STEPHEN F. AUSTIN STATE UNIVERSITY	18	17	1	0
245 UNIV OF TEXAS MED BRANCH AT GALVESTON	17	17	0	27
246 UNIVERSITY OF MISSOURI - ST LOUIS	16	11	5	2
247 MASS COLLEGE OF PHARMACY/ALLIED HEALTH	15	14	1	1
248 UNIVERSITY OF THE PACIFIC	15	15	0	0
249 CALIF SCH OF PROF PSYCH - SAN DIEGO	15	11	4	0
250 GOLDEN GATE UNIVERSITY	15	7	8	0
TOTAL, 1ST 250 INSTS.	69,229	59,576	9,653	7,211

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TABLE E-6. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
251 SETON HALL UNIVERSITY	15	11	4	1
252 HAHNEMANN UNIVERSITY	14	14	0	4
253 NORTHERN ARIZONA UNIVERSITY	14	13	1	0
254 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	13	13	0	60
255 RAND GRADUATE INSTITUTE POLICY STUDIES	13	9	4	0
256 UNIVERSITY OF HEALTH SCIENCES	11	11	0	1
257 UNIVERSITY OF SOUTH ALABAMA	11	11	0	3
258 MEDICAL UNIVERSITY OF SOUTH CAROLINA	11	11	0	19
259 PHILADELPHIA COLL OF PHARMACY AND SCI	11	9	2	0
260 IDAHO STATE UNIVERSITY	11	11	0	0
TOTAL, 1ST 260 INSTS.	69,353	59,689	9,664	7,[illegible]
261 MEDICAL COLLEGE OF OHIO AT TOLEDO	11	8	3	0
262 EAST CAROLINA UNIVERSITY	11	10	1	3
263 HOFSTRA UNIVERSITY	10	7	3	0
264 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	10	8	2	0
265 BIOLA UNIVERSITY	10	7	3	0
266 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	10	10	0	5
267 WAKE FOREST UNIVERSITY	9	9	0	5
268 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	9	9	0	2
269 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	9	8	1	16
270 MARSHALL UNIVERSITY	8	8	0	1
TOTAL, 1ST 270 INSTS	69,450	59,773	9,677	7,331
271 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	8	7	1	25
272 THE WRIGHT INSTITUTE	8	7	1	0
273 UNIVERSITY OF PUERTO RICO	7	5	2	0
274 UNIVERSITY OF NORTHERN IOWA	7	6	1	0
275 MEDICAL COLLEGE OF GEORGIA	7	7	0	16
276 NEW YORK MEDICAL COLLEGE	7	5	2	5
277 HEMARRY MEDICAL COLLEGE	7	7	0	2
278 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	7	6	1	2
279 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	7	5	2	0
280 MEDICAL COLLEGE OF WISCONSIN	6	6	0	4
TOTAL, 1ST 280 INSTS.	69,521	59,834	9,687	7,387
281 NE OHIO UNIV MED SCHOOL	6	6	0	1
282 UNIVERSITY OF NEBRASKA - OMAHA	6	3	3	0
283 FULLER THEOLOGICAL SEMINARY	6	6	0	0
284 CITY LEHMAN COLLEGE	6	6	0	0
285 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	5	5	0	35
286 OREGON HEALTH SCIENCES UNIVERSITY	5	5	0	5
287 UNIV OF MED AND DENT OF NEW JERSEY	5	5	0	9
288 ALBANY MEDICAL COLLEGE	4	4	0	0
289 SMITH COLLEGE	4	4	0	0
290 UNIVERSITY OF SOUTH DAKOTA	4	4	0	1
TOTAL, 1ST 290 INSTS.	69,572	59,882	9,690	7,538
291 RUSH UNIVERSITY	4	3	1	0
292 SUNY - UPSTATE MEDICAL CENTER	3	3	0	9
293 CALIF SCH OF PROF PSYCH - LOS ANGELES	3	3	0	0
294 ORAL ROBERTS UNIVERSITY	2	2	0	0
295 UNION COLLEGE(NY)	2	1	1	0
296 CALIF SCH OF PROF PSYCH - FRESNO	2	2	0	0
297 CHICAGO SCHOOL OF PROF PSYCH	2	1	1	0
298 EASTERN VIRGINIA MEDICAL SCHOOL	2	2	0	0
299 BAYLOR COLLEGE OF DENTISTRY	2	1	1	0
300 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	2	2	0	6
TOTAL, 1ST 300 INSTS.	69,596	59,902	9,694	7,453

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TABLE E-6. — DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
301 INSTITUTE OF PAPER CHEMISTRY	1	1	0	1
302 SUNY STATE COLLEGE OF OPTOMETRY	1	1	0	0
303 MAYO GRADUATE SCHOOL OF MEDICINE	1	1	0	57
304 CATHOLIC UNIVERSITY OF PUERTO RICO	1	1	0	0
305 PACIFIC GRAD SCHOOL OF PROF PSYCH	1	0	1	0
306 UNIVERSITY OF HEALTH SCIENCES	0	0	0	0
307 PROVIDENCE COLLEGE	0	0	0	0
308 CREIGHTON UNIVERSITY	0	0	0	1
309 THE MEDICAL COLLEGE OF PENNSYLVANIA	0	0	0	5
310 UNIVERSITY OF OSTEOPATHIC MEDICINE	0	0	0	0
TOTAL, 1ST 310 INSTS.	59,601	59,906	9,695	7,517
311 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	0	0	0	0
312 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0	1
313 CHICAGO COLL OF OSTEO MEDICINE	0	0	0	0
314 UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	0	0	0	23
315 INSTITUTE OF TEXTILE TECHNOLOGY	0	0	0	0
316 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0
317 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0
318 THE FIELDING INSTITUTE	0	0	0	0
319 THOMAS JEFFERSON UNIVERSITY	0	0	0	1
320 MOREHOUSE SCHOOL OF MEDICINE	0	0	0	0
TOTAL, 1ST 320 INSTS.	69,601	59,906	9,695	7,542
321 ST BONAVENTURE UNIVERSITY	0	0	0	0
322 TEXAS CHRISTIAN UNIVERSITY	0	0	0	0
323 PONCE SCHOOL OF MEDICINE	0	0	0	0
324 WICHITA STATE UNIVERSITY	0	0	0	0
TOTAL, 1ST 324 INSTS.	69,601	59,906	9,695	7,542

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-7. — MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	55,288	20,154	35,134	39
1 CALIF STATE UNIV AT LONG BEACH	1,751	188	1,563	0
2 SAN JOSE STATE UNIVERSITY	1,742	581	1,161	2
3 CALIF STATE UNIV AT FULLERTON	1,353	177	1,176	0
4 CALIF STATE UNIVERSITY AT SACRAMENTO	1,191	437	754	0
5 CALIF STATE UNIVERSITY AT NORTHRIDGE	1,160	457	703	0
6 CALIF STATE UNIV AT LOS ANGELES	1,149	462	687	0
7 THE HARTFORD GRADUATE CENTER	1,017	45	972	0
8 ANTIOCH UNIVERSITY	965	950	15	0
9 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	943	222	721	0
10 ROCHESTER INSTITUTE OF TECHNOLOGY	869	90	779	0
TOTAL, 1ST 10 INSTS.	12,140	3,609	8,531	2
11 SAN FRANCISCO STATE UNIVERSITY	858	480	378	1
12 JOHN F KENNEDY UNIVERSITY	796	317	479	0
13 CUNY BERNARD BARUCH COLLEGE	788	146	642	0
14 SANGAMON STATE UNIVERSITY	709	169	540	0
15 LOYOLA COLLEGE	676	125	551	0
16 CALIF STATE UNIVERSITY AT FRESNO	643	235	408	0
17 GOVERNORS STATE UNIVERSITY	632	70	562	0
18 CALIF STATE UNIV AT DOMINGUEZ HILLS	616	489	127	0
19 RUSSELL SAGE COLLEGE	610	51	559	0
20 MONTCLAIR STATE COLLEGE	604	70	534	0
TOTAL, 1ST 20 INSTS.	19,072	5,761	13,311	3
21 UNIVERSITY OF NEW HAVEN	602	72	530	0
22 CALIF STATE UNIV AT HAYWARD	600	158	442	0
23 EASTERN MICHIGAN UNIVERSITY	570	230	340	0
24 ROOSEVELT UNIVERSITY	566	164	402	0
25 CALIF STATE POLYTECHNIC UNIV AT POMONA	551	178	373	0
26 UNIVERSITY OF BRIDGEPORT	547	92	455	0
27 SOUTHWEST TEXAS STATE UNIVERSITY	532	160	372	0
28 WEST VIRGINIA COLLEGE OF GRAD STUDIES	531	36	495	0
29 MARYWOOD COLLEGE	500	134	366	0
30 IONA COLLEGE	490	0	490	0
TOTAL, 1ST 30 INSTS.	24,561	6,985	17,576	3
31 GEORGE WILLIAMS COLLEGE	464	162	302	0
32 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	450	71	379	0
33 UNIVERSITY OF SAN FRANCISCO	448	403	45	0
34 TOWSON STATE UNIVERSITY	396	84	312	0
35 CUNY BROOKLYN COLLEGE	393	46	347	0
36 TENNESSEE STATE UNIVERSITY	388	83	305	1
37 CUNY QUEENS COLLEGE	383	114	269	5
38 PEPPERDINE UNIVERSITY	375	228	147	0
39 SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	365	240	125	0
40 MANHATTAN COLLEGE	354	123	231	0
TOTAL, 1ST 40 INSTS.	28,577	8,539	20,038	9
41 SEATTLE UNIVERSITY	349	129	220	0
42 EASTERN WASHINGTON UNIVERSITY	348	192	156	1
43 UNIVERSITY OF WISCONSIN - STOUT	347	242	105	0
44 NATIONAL UNIVERSITY	335	268	67	0
45 HOOD COLLEGE	335	22	313	0
46 LOYOLA MARYMOUNT UNIVERSITY	335	199	136	0
47 UNIVERSITY OF WEST FLORIDA	322	110	212	0
48 WESTERN ILLINOIS UNIVERSITY	320	257	63	0
49 ST MARY'S COLLEGE	316	133	183	0
50 WEST TEXAS STATE UNIVERSITY	307	68	239	0
TOTAL, 1ST 50 INSTS.	31,891	10,159	21,732	10

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TABLE E-7. — MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

— CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
51 WEST CHESTER UNIVERSITY OF PENNSYLVANIA	306	73	233	0
52 WEST COAST UNIVERSITY	306	180	126	0
53 TRINITY UNIVERSITY	305	138	167	2
54 CORPUS CHRISTI STATE UNIVERSITY	303	47	256	0
55 ANNA MARIA COLLEGE	303	10	293	0
56 MANKATO STATE UNIVERSITY	294	199	95	0
57 CALIF STATE UNIVERSITY AT CHICO	288	238	50	0
58 SUNY COLLEGE AT OSWEGO	272	73	199	0
59 UNIVERSITY OF ARKANSAS AT LITTLE ROCK	268	99	169	1
60 MIDDLE TENNESSEE STATE UNIVERSITY	256	108	148	0
TOTAL, 1ST 60 INSTS.	34,792	11,324	23,468	13
61 JAMKSON STATE UNIVERSITY	253	123	130	0
62 ALABAMA A & M UNIVERSITY	251	181	70	2
63 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	250	179	71	0
64 UNIVERSITY OF LA VERNE	248	42	206	0
65 SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	248	66	182	0
66 BISCAYNE COLLEGE	245	100	145	0
67 UNIV OF NORTH CAROLINA AT CHARLOTTE	245	78	167	0
68 NORTHWESTERN STATE UNIV OF LOUISIANA	242	89	153	0
69 ARKANSAS STATE UNIVERSITY	240	98	142	0
70 ST MARY'S UNIVERSITY OF SAN ANTONIO	240	80	160	0
TOTAL, 1ST 70 INSTS.	37,254	12,360	24,894	15
71 NORTHEASTERN ILLINOIS UNIVERSITY	239	11	228	0
72 SOUTHERN CONNECTICUT STATE UNIVERSITY	[illegible]	108	130	0
73 UNIVERSITY OF BALTIMORE	[illegible]	39	199	0
74 BARRY UNIVERSITY	[illegible]	[illegible]	141	0
75 NORTH CAROLINA A & T STATE UNIVERSITY	231	158	74	2
76 EMPORIA STATE UNIVERSITY - KANSAS	231	112	119	0
77 UNIVERSITY OF HARTFORD	230	90	140	0
78 UNIVERSITY OF WISCONSIN - OSHKOSH	229	85	144	0
79 WESTERN KENTUCKY UNIVERSITY	218	117	101	0
80 AMERICAN INTERNATIONAL COLLEGE	217	48	169	0
TOTAL, 1ST 80 INSTS.	39,561	13,222	26,339	17
81 PITTSBURG STATE UNIVERSITY	215	86	129	0
82 WESTERN WASHINGTON UNIVERSITY	214	176	38	0
83 QUINNIPIAC COLLEGE	214	13	201	0
84 RHODE ISLAND COLLEGE	212	95	117	0
85 FORT HAYS STATE UNIVERSITY	200	93	107	0
86 TEXAS A & I UNIVERSITY	197	157	40	0
87 COLLEGE OF NEW ROCHELLE	193	29	164	0
88 CALIF STATE COLLEGE OF STANISLAUS	192	95	97	0
89 UNIVERSITY OF NEVADA AT LAS VEGAS	190	167	23	2
90 CHAPMAN COLLEGE	175	18	157	0
TOTAL, 1ST 90 INSTS.	41,563	[illegible]	27,412	19
91 APPALACHIAN STATE UNIVERSITY	174	128	46	0
92 TEXAS SOUTHERN UNIVERSITY	174	114	60	0
93 SONOMA STATE UNIVERSITY	173	70	103	0
94 UNIVERSITY OF SCRANTON	173	69	104	0
95 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	171	74	97	0
96 UNIVERSITY OF ALASKA AT ANCHORAGE	168	44	124	0
97 CENTRAL MISSOURI STATE UNIVERSITY	165	111	54	0
98 SUFFOLK UNIVERSITY	163	35	128	0
99 INDIANA UNIVERSITY OF PENNSYLVANIA	163	109	54	0
100 UNIVERSITY OF EVANSVILLE	159	15	144	0
TOTAL, 1ST 100 INSTS.	43,246	14,920	28,326	19

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TABLE E-7. -- MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
101 YOUNGSTOWN STATE UNIVERSITY	158	45	113	0
102 UNIVERSITY OF TEXAS AT TYLER	157	15	142	0
103 EASTERN KENTUCKY UNIVERSITY	157	113	44	0
104 UNIVERSITY OF TEXAS AT SAN ANTONIO	156	45	111	5
105 EDINBORO UNIVERSITY OF PENNSYLVANIA	154	67	87	0
106 BRADLEY UNIVERSITY	154	57	97	0
107 MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	153	22	131	0
108 XAVIER UNIVERSITY	150	101	49	0
109 ST JOSEPH COLLEGE	150	0	150	0
110 WESTERN NEW ENGLAND COL	147	0	147	0
TOTAL, 1ST 110 INSTS.	44,782	15,385	29,397	24
111 EASTERN ILLINOIS UNIVERSITY	146	114	32	0
112 CENTRAL CONNECTICUT STATE UNIVERSITY	146	27	119	0
113 EASTERN NEW MEXICO UNIVERSITY	145	86	59	1
114 MIDWESTERN STATE UNIVERSITY	143	12	131	0
115 WAGNER COLLEGE	142	14	128	0
116 PACIFIC LUTHERAN UNIVERSITY	140	41	99	0
117 UNIVERSITY OF WISCONSIN - STEVENS POINT	138	114	24	0
118 WORCESTER STATE COLLEGE	138	0	138	0
119 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	137	29	108	0
120 ASSUMPTION COLLEGE	134	48	86	0
TOTAL, 1ST 120 INSTS.	46,191	15,870	30,321	25
121 WILLIAM PATERSON COLLEGE	133	19	114	0
122 MONMOUTH COLLEGE(NJ)	133	12	121	0
123 UNIVERSITY OF THE DISTRICT OF COLUMBIA	130	61	69	0
124 UNIVERSITY OF CENTRAL ARKANSAS	130	84	46	0
125 SUNY COLLEGE AT NEW PALTZ	129	48	81	1
126 AMERICAN TECHNOLOGICAL UNIVERSITY	128	68	60	1
127 SUNY COLLEGE AT BROCKPORT	128	26	102	0
128 WESTERN CAROLINA UNIVERSITY	121	64	57	0
129 SPALDING UNIVERSITY	120	16	104	0
130 WESTERN OREGON STATE COLLEGE	119	53	66	0
TOTAL, 1ST 130 INSTS.	47,462	16,321	31,141	25
131 TUSKEGEE INSTITUTE	118	117	1	1
132 CALIF STATE COLLEGE AT SAN BERNARDINO	118	66	52	0
133 MURRAY STATE UNIVERSITY	116	83	33	0
134 PRAIRIE VIEW A & M UNIVERSITY	116	98	18	0
135 COLLEGE OF ST ROSE	116	3	113	0
136 SOUTHWEST MISSOURI STATE UNIVERSITY	113	58	55	0
137 HAMPTON INSTITUTE	110	82	28	0
138 JAMES MADISON UNIVERSITY	110	66	44	0
139 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	110	47	63	1
140 TROY STATE UNIVERSITY AT MONTGOMERY	110	65	45	0
TOTAL, 1ST 140 INSTS.	48,599	17,006	31,593	27
141 UNIVERSITY OF MASSACHUSETTS-BOSTON	108	51	57	0
142 KEAN COLLEGE OF NEW JERSEY	108	10	98	0
143 MCNEESE STATE UNIVERSITY	108	36	72	0
144 NORTHEAST MISSOURI STATE UNIVERSITY	107	59	48	0
145 WIDENER UNIVERSITY	105	17	88	0
146 AZUSA PACIFIC UNIVERSITY	104	94	10	0
147 UNIVERSITY OF PORTLAND	103	89	14	0
148 JACKSONVILLE STATE UNIVERSITY	102	28	74	0
149 TRENTON STATE COLLEGE	99	5	94	0
150 VALDOSTA STATE COLLEGE	98	34	64	0
TOTAL, 1ST 150 INSTS.	49,641	17,429	32,212	27

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TABLE E-7. — MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
151 DRAKE UNIVERSITY	97	39	58	0
152 GANNON UNIVERSITY	96	39	57	0
153 NORTHWEST MISSOURI STATE UNIVERSITY	94	43	51	0
154 UNIVERSITY OF WISCONSIN - LA CROSSE	93	55	38	0
155 HUMBOLDT STATE UNIVERSITY	92	49	43	0
156 UNIVERSITY OF SAN DIEGO	90	35	55	0
157 NORTHERN MICHIGAN UNIVERSITY	90	24	66	0
158 UNIVERSITY OF WISCONSIN - EAU CLAIRE	87	54	33	0
159 BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	86	43	43	0
160 ANDREWS UNIVERSITY	86	26	60	0
TOTAL, 1ST 160 INSTS.	50,552	17,836	32,716	27
161 WASHINGTON COLLEGE	85	0	85	0
162 CENTRAL WASHINGTON UNIVERSITY	84	69	15	0
163 BUTLER UNIVERSITY	83	7	76	0
164 WEST GEORGIA COLLEGE	81	33	48	0
165 MONTEREY INST OF INTL STUDIES	81	73	8	0
166 MILWAUKEE SCHOOL OF ENGINEERING	79	5	74	0
167 INDIANA CENTRAL UNIVERSITY	78	70	8	0
168 RADFORD UNIVERSITY	77	45	32	0
169 MOREHEAD STATE UNIVERSITY	76	50	26	0
170 NORTHROP UNIVERSITY	76	22	54	0
TOTAL, 1ST 170 INSTS.	51,352	18,210	33,142	27
171 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	75	65	10	0
172 PRATT INSTITUTE	74	17	57	0
173 SUL ROSS STATE UNIVERSITY	74	54	20	0
174 NORTH CAROLINA CENTRAL UNIVERSITY	74	39	35	0
175 NEW MEXICO HIGHLANDS UNIVERSITY	73	71	2	0
176 JACKSONVILLE UNIVERSITY	72	0	72	0
177 SOUTHERN UNIVERSITY A & M COLLEGE	70	37	33	0
178 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	69	25	44	0
179 ANGELO STATE UNIVERSITY	69	20	49	0
180 UNIVERSITY OF WISCONSIN - GREEN BAY	68	19	49	0
TOTAL, 1ST 180 INSTS.	52,070	18,557	33,513	27
181 SUNY COLLEGE AT GENESEO	68	57	11	0
182 COLLEGE OF CHARLESTON	67	34	33	0
183 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	65	9	56	0
184 RIVIER COLLEGE	63	2	61	0
185 MORGAN STATE UNIVERSITY	62	37	25	0
186 WHITWORTH COLLEGE	62	62	0	0
187 VIRGINIA STATE UNIVERSITY	62	36	26	1
188 SUNY COLLEGE AT PLATTSBURGH	62	50	12	1
189 CALIFORNIA UNIVERSITY OF PENNSYLVANIA	60	26	34	0
190 COOPER UNION	59	36	23	0
TOTAL, 1ST 190 INSTS.	52,700	18,906	33,794	29
191 FROSTBURG STATE COLLEGE	58	26	32	0
192 MOORHEAD STATE UNIVERSITY	58	40	18	0
193 FLORIDA A & M UNIVERSITY	58	50	8	0
194 WINTHROP COLLEGE	56	25	31	0
195 TARLETON STATE UNIVERSITY	54	30	24	0
196 GEORGIA SOUTHERN COLLEGE	54	31	23	0
197 MARIST COLLEGE	53	24	29	0
198 SUNY COLLEGE AT BUFFALO	53	21	32	1
199 KUTZTOWN UNIVERSITY OF PENNSYLVANIA	50	3	47	0
200 JOHN CARROLL UNIVERSITY	50	17	33	0
TOTAL, 1ST 200 INSTS.	53,244	19,173	34,071	30

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TABLE E-7. -- MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING		TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
201	FRAMINGHAM STATE COLLEGE	49	15	34	0
202	SARAH LAWRENCE COLLEGE	49	45	4	0
203	AUSTIN PEAY STATE UNIVERSITY	49	14	35	0
204	UNIVERSITY OF WISCONSIN - PLATTEVILLE	46	23	23	0
205	UNIVERSITY OF ALASKA SOUTHEAST	45	13	32	0
206	TRINITY COLLEGE	45	0	45	0
207	CLARION UNIVERSITY OF PENNSYLVANIA	45	20	25	0
208	ST JOSEPH'S UNIVERSITY	44	5	39	0
209	SUNY COLLEGE AT FREDONIA	43	27	16	0
210	SAINT FRANCIS COLLEGE	43	12	31	0
	TOTAL, 1ST 210 INSTS.	53,702	19,347	34,355	30
211	EMERSON COLLEGE	42	38	4	0
212	UNIVERSITY OF REDLANDS	42	24	18	0
213	DOMINICAN COLLEGE OF SAN RAFAEL	41	21	20	0
214	CHICAGO STATE UNIVERSITY	39	3	36	0
215	SOUTHERN OREGON STATE COLLEGE	39	17	22	0
216	UNIVERSITY OF WISCONSIN - WHITEWATER	39	19	20	0
217	GODDARD COLLEGE	38	38	0	0
218	EAST STROUDSBURG UNIV OF PENNSYLVANIA	37	12	25	0
219	CALIFORNIA LUTHERAN COLLEGE	37	2	35	0
220	GEORGIA COLLEGE	37	12	25	0
	TOTAL, 1ST 220 INSTS.	54,093	19,533	34,560	30
221	UNIVERSITY OF GUAM	35	12	23	0
222	UNIVERSITY OF RICHMOND	35	15	20	2
223	ITHACA COLLEGE	34	24	10	0
224	MISSISSIPPI UNIVERSITY FOR WOMEN	34	18	16	0
225	ABILENE CHRISTIAN UNIVERSITY	34	29	5	0
226	VALPARAISO UNIVERSITY	33	4	29	0
227	BUCKNELL UNIVERSITY	33	27	6	3
228	WASHBURN UNIVERSITY OF TOPEKA	33	8	25	0
229	UNIVERSITY OF NORTH CAROLINA/WILMINGTON	31	7	24	0
230	ST CLOUD STATE UNIVERSITY	30	17	13	0
	TOTAL, 1ST 230 INSTS.	54,425	19,694	34,731	35
231	SOUTHEAST MISSOURI STATE UNIVERSITY	30	17	13	0
232	CITADEL MILITARY COLL OF SOUTH CAROLINA	29	2	27	0
233	PAN AMERICAN UNIVERSITY	28	7	21	0
234	CONNECTICUT COLLEGE	28	22	6	0
235	PACIFIC STATES UNIVERSITY	28	22	6	2
236	FLORIDA INTERNATIONAL UNIVERSITY	27	7	20	0
237	AUGUSTA COLLEGE	25	18	7	0
238	FISK UNIVERSITY	25	21	4	1
239	NICHOLLS STATE UNIVERSITY	25	22	3	0
240	LORAS COLLEGE	25	0	25	0
	TOTAL, 1ST 240 INSTS.	54,695	19,832	34,863	38
241	COPPIN STATE COLLEGE	25	9	16	0
242	ROSE-HULMAN INSTITUTE OF TECHNOLOGY	23	18	5	0
243	UNIVERSITY OF PUGET SOUND	23	21	2	0
244	SUNY COLLEGE AT POTSDAM	23	2	21	0
245	EAST CENTRAL OKLAHOMA STATE UNIVERSITY	22	9	13	0
246	GRAND VALLEY STATE COLLEGES	22	0	22	0
247	DREW UNIVERSITY	21	5	16	0
248	BEMIDJI STATE UNIVERSITY	21	14	7	0
249	ARMSTRONG STATE COLLEGE	20	0	20	0
250	WEST VIRGINIA INSTITUTE OF TECHNOLOGY	20	14	6	0
	TOTAL, 1ST 250 INSTS.	54,915	19,924	34,991	35

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TABLE E-7. — MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING		TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
251	UNIVERSITY OF MONTEVALLO	20	14	6	0
252	ADAMS STATE UNIVERSITY	20	20	0	0
253	ALABAMA STATE UNIVERSITY	19	13	6	0
254	WILLIAMS COLLEGE	19	19	0	0
255	HENDERSON STATE UNIVERSITY	17	6	11	0
256	SOUTHEASTERN LOUISIANA UNIVERSITY	15	11	4	0
257	WESTERN CONNECTICUT STATE UNIVERSITY	15	2	13	0
258	KEARNEY STATE COLLEGE	15	10	5	0
259	GALLAUDET COLLEGE	14	14	0	0
260	WESTERN STATE COLLEGE OF COLORADO	14	10	4	0
	TOTAL, 1ST 260 INSTS.	55,083	20,043	35,040	38
261	HARVEY MUDD COLLEGE	13	13	0	0
262	NIAGARA UNIVERSITY	13	8	5	0
263	MOUNT HOLYOKE COLLEGE	12	10	2	0
264	MANSFIELD UNIVERSITY OF PENNSYLVANIA	12	10	2	0
265	SAMFORD UNIVERSITY	11	5	6	0
266	CUNY COLLEGE OF STATEN ISLAND ST GEORGE	11	1	10	0
267	MIDWEST COLLEGE OF ENGINEERING	11	0	11	0
268	ROLLINS COLLEGE	10	9	1	0
269	UNIVERSITY OF NORTH ALABAMA	10	0	10	0
270	WALLA WALLA COLLEGE	9	9	0	0
	TOTAL, 1ST 270 INSTS.	55,195	20,108	35,087	38
271	BRIDGEWATER STATE COLLEGE	8	0	8	0
272	SUNY COLLEGE AT CORTLAND	7	6	1	0
273	WILKES COLLEGE	7	0	7	0
274	INCARNATE WORD COLLEGE	7	7	0	0
275	STETSON UNIVERSITY	7	0	7	0
276	LYNCHBURG COLLEGE	6	0	6	0
277	SLIPPERY ROCK UNIVERSITY OF PENNSYLVANIA	6	6	0	0
278	ROLLINS COLLEGE	6	1	5	0
279	UNIVERSITY OF WISCONSIN - RIVER FALLS	5	3	2	0
280	SUNY COLLEGE AT ONEONTA	5	3	2	0
	TOTAL, 1ST 280 INSTS.	55,259	20,134	35,125	38
281	FURMAN UNIVERSITY	5	5	0	0
282	CHEYNEY UNIVERSITY OF PENNSYLVANIA	5	2	3	0
283	DE PAUW UNIVERSITY	4	4	0	0
284	PACIFIC UNIVERSITY	4	4	0	0
285	VASSAR COLLEGE	4	0	4	0
286	MIDDLEBURY COLLEGE	2	2	0	1
287	LOYOLA UNIVERSITY IN NEW ORLEANS	2	0	2	0
288	OCCIDENTAL COLLEGE	2	2	0	0
289	WHITTIER COLLEGE	1	1	0	0
290	MISSISSIPPI COLLEGE	0	0	0	0
	TOTAL, 1ST 290 INSTS.	55,288	20,154	35,134	39
291	SALEM STATE COLLEGE	0	0	0	0
292	WORLD UNIVERSITY	0	0	0	0
293	SWARTHMORE COLLEGE	0	0	0	0
	TOTAL, 1ST 293 INSTS.	55,288	20,154	35,134	39

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-8. — MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	26,406	10,088	16,318	8
1 SAN JOSE STATE UNIVERSITY	807	304	503	0
2 CALIF STATE UNIV AT LONG BEACH	735	80	655	0
3 ANTIOCH UNIVERSITY	682	671	11	0
4 JOHN F KENNEDY UNIVERSITY	594	236	358	0
5 CALIF STATE UNIVERSITY AT SACRAMENTO	565	239	326	0
6 CALIF STATE UNIV AT LOS ANGELES	527	209	318	0
7 CALIF STATE UNIV AT FULLERTON	494	75	419	0
8 SAN FRANCISCO STATE UNIVERSITY	476	276	200	1
9 CALIF STATE UNIVERSITY AT NORTHRIDGE	463	198	265	0
10 RUSSELL SAGE COLLEGE	450	45	405	0
TOTAL, 1ST 10 INSTS.	5,793	2,333	3,460	1
11 GOVERNORS STATE UNIVERSITY	407	36	371	0
12 CALIF STATE UNIV AT DOMINGUEZ HILLS	403	330	73	0
13 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	403	125	278	0
14 SANGAMON STATE UNIVERSITY	378	83	295	0
15 CUNY BERNARD BARUCH COLLEGE	360	75	285	0
16 CALIF STATE UNIV AT HAYWARD	332	95	237	0
17 CALIF STATE UNIVERSITY AT FRESNO	328	101	227	0
18 LOYOLA COLLEGE	326	73	253	0
19 GEORGE WILLIAMS COLLEGE	295	108	187	0
20 MARYMOOD COLLEGE	293	85	208	0
TOTAL, 1ST 20 INSTS.	9,318	3,444	5,874	1
21 ROOSEVELT UNIVERSITY	287	58	229	0
22 MONTCLAIR STATE COLLEGE	279	32	247	0
23 TOWSON STATE UNIVERSITY	275	59	216	0
24 SOUTHWEST TEXAS STATE UNIVERSITY	266	69	197	0
25 PEPPERDINE UNIVERSITY	258	160	98	0
26 ANNA MARIA COLLEGE	252	5	247	0
27 ST MARY'S COLLEGE	218	78	140	0
28 ROCHESTER INSTITUTE OF TECHNOLOGY	214	21	193	0
29 HOOD COLLEGE	214	18	196	0
30 WEST VIRGINIA COLLEGE OF GRAD STUDIES	214	18	196	0
TOTAL, 1ST 30 INSTS.	11,795	3,962	7,833	1
31 IONA COLLEGE	213	0	213	0
32 UNIVERSITY OF NEW HAVEN	200	29	171	0
33 NORTHWESTERN STATE UNIV OF LOUISIANA	200	61	139	0
34 EASTERN MICHIGAN UNIVERSITY	198	81	117	0
35 CUNY QUEENS COLLEGE	198	67	131	0
36 UNIVERSITY OF SAN FRANCISCO	196	179	17	0
37 THE HARTFORD GRADUATE CENTER	194	12	182	0
38 BARRY UNIVERSITY	191	80	111	0
39 SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	190	138	52	0
40 SUNY COLLEGE AT OSWEGO	190	48	142	0
TOTAL, 1ST 40 INSTS.	13,765	4,657	9,108	1
41 TENNESSEE STATE UNIVERSITY	181	43	138	0
42 UNIVERSITY OF WISCONSIN - STOUT	179	121	58	0
43 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	179	31	148	0
44 COLLEGE OF NEW ROCHELLE	174	22	152	0
45 EASTERN WASHINGTON UNIVERSITY	170	97	73	0
46 SOUTHERN CONNECTICUT STATE UNIVERSITY	164	85	79	0
47 CUNY BROOKLYN COLLEGE	163	21	142	0
48 ARKANSAS STATE UNIVERSITY	163	41	122	0
49 LOYOLA MARYMOUNT UNIVERSITY	156	114	42	0
50 WEST CHESTER UNIVERSITY OF PENNSYLVANIA	151	35	116	0
TOTAL, 1ST 50 INSTS.	15,445	5,267	10,178	1

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TABLE B-3. -- MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

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INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
51 UNIVERSITY OF ARKANSAS AT LITTLE ROCK	150	51	99	1
52 RHODE ISLAND COLLEGE	148	69	79	0
53 CALIF STATE POLYTECHNIC UNIV AT POMONA	144	53	91	0
54 UNIVERSITY OF WEST FLORIDA	141	47	94	0
55 WESTERN ILLINOIS UNIVERSITY	140	100	40	0
56 WEST TEXAS STATE UNIVERSITY	139	30	109	0
57 EMPORIA STATE UNIVERSITY - KANSAS	134	62	72	0
58 CORPUS CHRISTI STATE UNIVERSITY	134	19	115	0
59 UNIVERSITY OF BRIDGEPORT	133	17	116	0
60 UNIVERSITY OF WISCONSIN - OSHKOSH	128	43	85	0
TOTAL, 1ST 60 INSTS.	16,836	5,758	11,078	2
61 CALIF STATE COLLEGE OF STANISLAUS	128	77	51	0
62 CHAPMAN COLLEGE	127	13	114	0
63 AMERICAN INTERNATIONAL COLLEGE	124	31	93	0
64 MIDDLE TENNESSEE STATE UNIVERSITY	123	51	72	0
65 WAGNER COLLEGE	122	11	111	0
66 NATIONAL UNIVERSITY	121	96	25	0
67 NORTHEASTERN ILLINOIS UNIVERSITY	121	3	118	0
68 EDINBORO UNIVERSITY OF PENNSYLVANIA	120	52	68	0
69 UNIV OF NORTH CAROLINA AT CHARLOTTE	116	29	87	0
70 WESTERN WASHINGTON UNIVERSITY	115	95	20	0
TOTAL, 1ST 70 INSTS.	18,053	6,216	11,837	2
71 CALIF STATE UNIVERSITY AT CHICO	114	90	24	0
72 JACKSON STATE UNIVERSITY	114	45	69	0
73 UNIVERSITY OF HARTFORD	113	41	72	0
74 MANKATO STATE UNIVERSITY	112	69	43	0
75 TRINITY UNIVERSITY	112	63	49	1
76 BISCAYNE COLLEGE	108	43	65	0
77 UNIVERSITY OF EVANSVILLE	107	9	98	0
78 CENTRAL MISSOURI STATE UNIVERSITY	105	67	38	0
79 UNIVERSITY OF BALTIMORE	103	16	87	0
80 PITTSBURG STATE UNIVERSITY	103	30	73	0
TOTAL, 1ST 80 INSTS.	19,144	6,489	12,495	3
81 UNIVERSITY OF SCRANTON	102	43	59	0
82 ST MARY'S UNIVERSITY OF SAN ANTONIO	100	33	67	0
83 UNIVERSITY OF WISCONSIN - STEVENS POINT	99	83	16	0
84 SONOMA STATE UNIVERSITY	99	40	59	0
85 HAMPTON INSTITUTE	96	69	27	0
86 UNIVERSITY OF CENTRAL ARKANSAS	96	58	38	0
87 ASSUMPTION COLLEGE	95	38	57	0
88 UNIVERSITY OF NEVADA AT LAS VEGAS	94	81	13	0
89 APPALACHIAN STATE UNIVERSITY	94	72	22	0
90 FORT HAYS STATE UNIVERSITY	92	35	57	0
TOTAL, 1ST 90 INSTS.	20,111	7,241	12,870	3
91 UNIVERSITY OF TEXAS AT TYLER	92	8	84	0
92 WILLIAM PATERSON COLLEGE	90	11	79	0
93 EASTERN NEW MEXICO UNIVERSITY	90	47	43	1
94 MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	90	15	75	0
95 ALABAMA A & M UNIVERSITY	89	62	27	0
96 JAMES MADISON UNIVERSITY	87	49	38	0
97 SUFFOLK UNIVERSITY	86	15	71	0
98 SPALDING UNIVERSITY	86	11	75	0
99 ST JOSEPH COLLEGE	84	0	84	0
100 TEXAS SOUTHERN UNIVERSITY	83	50	33	0
TOTAL, 1ST 100 INSTS.	20,988	7,509	13,479	4

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TABLE E-8. — MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

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INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
101 UNIVERSITY OF LA VERNE	79	14	65	0
102 WORCESTER STATE COLLEGE	79	0	79	0
103 XAVIER UNIVERSITY	78	52	26	0
104 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	78	54	24	0
105 UNIVERSITY OF PORTLAND	77	76	1	0
106 WESTERN KENTUCKY UNIVERSITY	77	42	35	0
107 TRENTON STATE COLLEGE	76	4	72	0
108 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	75	38	37	0
109 WESTERN CAROLINA UNIVERSITY	73	37	36	0
110 KEAN COLLEGE OF NEW JERSEY	72	6	66	0
TOTAL, 1ST 110 INSTS.	21,752	7,832	13,920	4
111 UNIVERSITY OF THE DISTRICT OF COLUMBIA	71	29	42	0
112 NORTHEAST MISSOURI STATE UNIVERSITY	70	45	25	0
113 INDIANA UNIVERSITY OF PENNSYLVANIA	70	44	26	0
114 UNIVERSITY OF SAN DIEGO	70	28	42	0
115 ANDREWS UNIVERSITY	68	15	53	0
116 BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	68	31	37	0
117 SUNY COLLEGE AT NEW PALTZ	68	25	43	0
118 EASTERN ILLINOIS UNIVERSITY	67	51	16	0
119 UNIVERSITY OF WISCONSIN - EAU CLAIRE	66	44	22	0
120 EASTERN KENTUCKY UNIVERSITY	63	47	16	0
TOTAL, 1ST 120 INSTS.	22,433	8,191	14,242	4
121 AZUSA PACIFIC UNIVERSITY	63	57	6	0
122 UNIVERSITY OF ALASKA AT ANCHORAGE	61	17	44	0
123 SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	60	13	47	0
124 SOUTHWEST MISSOURI STATE UNIVERSITY	58	27	31	0
125 TEXAS A & I UNIVERSITY	58	45	13	0
126 CENTRAL CONNECTICUT STATE UNIVERSITY	57	14	43	0
127 SUNY COLLEGE AT BROCKPORT	57	9	48	0
128 PRAIRIE VIEW A & M UNIVERSITY	56	43	13	0
129 SUNY COLLEGE AT GENESEO	55	49	6	0
130 WASHINGTON COLLEGE	55	0	55	0
TOTAL, 1ST 130 INSTS.	23,013	8,465	14,548	4
131 MIDWESTERN STATE UNIVERSITY	55	7	48	0
132 TROY STATE UNIVERSITY AT MONTGOMERY	54	24	30	0
133 CALIF STATE COLLEGE AT SAN BERNARDINO	53	41	12	0
134 NORTH CAROLINA A & T STATE UNIVERSITY	52	37	15	1
135 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	52	12	40	0
136 GANNON UNIVERSITY	50	21	29	0
137 CENTRAL WASHINGTON UNIVERSITY	50	40	10	0
138 PACIFIC LUTHERAN UNIVERSITY	50	26	24	0
139 UNIVERSITY OF TEXAS AT SAN ANTONIO	49	19	30	1
140 MONMOUTH COLLEGE(NJ)	48	7	41	0
TOTAL, 1ST 140 INSTS.	23,526	8,699	14,827	6
141 RADFORD UNIVERSITY	48	29	19	0
142 WINTHROP COLLEGE	46	22	24	0
143 UNIVERSITY OF WISCONSIN - LA CROSSE	46	31	15	0
144 FRAMINGHAM STATE COLLEGE	46	15	31	0
145 WESTERN OREGON STATE COLLEGE	46	17	29	0
146 SARAH LAWRENCE COLLEGE	46	42	4	0
147 WEST GEORGIA COLLEGE	46	14	32	0
148 INDIANA CENTRAL UNIVERSITY	45	41	4	0
149 WHITWORTH COLLEGE	44	44	0	0
150 DRAKE UNIVERSITY	44	18	26	0
TOTAL, 1ST 150 INSTS.	23,983	8,972	15,011	6

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TABLE E-8. — MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

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INSTITUTIONAL RANKING		TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
151	BUTLER UNIVERSITY	43	4	39	0
152	SUNY COLLEGE AT PLATTSBURGH	43	32	11	0
153	SOUTHEASTERN MASSACHUSETTS UNIVERSITY	42	11	31	0
154	EMERSON COLLEGE	42	38	4	0
155	JACKSONVILLE STATE UNIVERSITY	42	9	33	0
156	WEST COAST UNIVERSITY	41	28	13	0
157	WESTERN NEW ENGLAND COL	41	0	41	0
158	MANHATTAN COLLEGE	41	18	23	0
159	NEW MEXICO HIGHLANDS UNIVERSITY	41	40	1	0
160	MCNEESE STATE UNIVERSITY	40	14	26	0
	TOTAL, 1ST 160 INSTS.	24,399	9,166	15,233	6
161	NORTHWEST MISSOURI STATE UNIVERSITY	40	14	26	0
162	AMERICAN TECHNOLOGICAL UNIVERSITY	40	21	19	0
163	UNIVERSITY OF WISCONSIN - GREEN BAY	39	10	29	0
164	MOREHEAD STATE UNIVERSITY	38	26	12	0
165	VALDOSTA STATE COLLEGE	38	14	24	0
166	UNIVERSITY OF REDLANDS	38	22	16	0
167	TUSKEGEE INSTITUTE	38	38	0	0
168	DOMINICAN COLLEGE OF SAN RAFAEL	37	20	17	0
169	MURRAY STATE UNIVERSITY	37	29	8	0
170	CALIFORNIA STATE COLLEGE AT BAKERSFIELD	37	6	31	0
	TOTAL, 1ST 170 INSTS.	24,781	9,366	15,415	6
171	YOUNGSTOWN STATE UNIVERSITY	36	8	28	0
172	MARIST COLLEGE	36	16	20	0
173	ANGELO STATE UNIVERSITY	36	10	26	0
174	MISSISSIPPI UNIVERSITY FOR WOMEN	34	18	16	0
175	BRADLEY UNIVERSITY	34	18	16	0
176	HUMBOLDT STATE UNIVERSITY	33	18	15	0
177	MOORHEAD STATE UNIVERSITY	33	23	10	0
178	SAINT FRANCIS COLLEGE	33	7	26	0
179	MONTEREY INST OF INTL STUDIES	32	28	4	0
180	JACKSONVILLE UNIVERSITY	32	0	32	0
	TOTAL, 1ST 180 INSTS.	25,120	9,512	15,608	6
181	SOUTHERN UNIVERSITY A & M COLLEGE	31	16	15	0
182	NORTHERN MICHIGAN UNIVERSITY	31	12	19	0
183	SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	30	11	19	0
184	RIVIER COLLEGE	29	1	28	0
185	FROSTBURG STATE COLLEGE	29	7	22	0
186	COLLEGE OF ST ROSE	29	0	29	0
187	GEORGIA SOUTHERN COLLEGE	28	15	13	0
188	FLORIDA INTERNATIONAL UNIVERSITY	27	7	20	0
189	GODDARD COLLEGE	26	26	0	0
190	ITHACA COLLEGE	26	16	10	0
	TOTAL, 1ST 190 INSTS.	25,406	9,623	15,783	6
191	GEORGIA COLLEGE	25	6	19	0
192	NORTH CAROLINA CENTRAL UNIVERSITY	25	9	16	0
193	FLORIDA A & M UNIVERSITY	24	21	3	0
194	AUSTIN PEAY STATE UNIVERSITY	24	6	18	0
195	CALIFORNIA UNIVERSITY OF PENNSYLVANIA	23	9	14	0
196	CLARION UNIVERSITY OF PENNSYLVANIA	23	10	13	0
197	CAMERON COLLEGE	21	15	6	0
198	PRATT INSTITUTE	21	5	16	0
199	UNIVERSITY OF WISCONSIN - WHITEWATER	21	10	11	0
200	COLLEGE OF CHARLESTON	21	10	11	0
	TOTAL, 1ST 200 INSTS.	25,634	9,724	15,910	6

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TABLE E-8. — MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

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INSTITUTIONAL RANKING		TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
201	KUTZTOWN UNIVERSITY OF PENNSYLVANIA	21	1	20	0
202	SUNY COLLEGE AT BUFFALO	20	9	11	0
203	MORGAN STATE UNIVERSITY	19	10	9	0
204	SEATTLE UNIVERSITY	19	1	18	0
205	VIRGINIA STATE UNIVERSITY	19	9	10	0
206	ABILENE CHRISTIAN UNIVERSITY	19	15	4	0
207	SOUTHERN OREGON STATE COLLEGE	19	9	10	0
208	UNIVERSITY OF MONTEVALLO	18	13	5	0
[illegible]	UNIVERSITY OF MASSACHUSETTS-BOSTON	18	18	0	0
210	CITADEL MILITARY COLL OF SOUTH CAROLINA	18	1	17	0
	TOTAL, 1ST 210 INSTS.	25,824	9,810	16,014	4
211	CHICAGO STATE UNIVERSITY	18	1	17	0
212	EAST STROUDSBURG UNIV OF PENNSYLVANIA	17	5	12	0
213	UNIVERSITY OF PUGET SOUND	17	15	2	0
214	SUL ROSS STATE UNIVERSITY	17	11	6	0
215	WASHBURN UNIVERSITY OF TOPEKA	17	5	12	0
216	GRAND VALLEY STATE COLLEGES	16	0	16	0
217	FISK UNIVERSITY	16	14	2	0
218	TRINITY COLLEGE	16	0	16	0
219	AUGUSTA COLLEGE	15	11	4	0
220	CALIFORNIA LUTHERAN COLLEGE	15	2	13	0
	TOTAL, 1ST 220 INSTS.	25,988	9,874	16,114	4
221	JOHN CARROLL UNIVERSITY	14	5	9	0
222	NICHOLLS STATE UNIVERSITY	14	11	3	0
223	ST JOSEPH'S UNIVERSITY	14	2	12	0
224	GALLAUDET COLLEGE	13	13	0	0
225	UNIVERSITY OF RICHMOND	13	4	9	1
226	UNIVERSITY OF ALASKA SOUTHEAST	13	3	10	0
227	HIDENER UNIVERSITY	13	1	12	0
228	ARMSTRONG STATE COLLEGE	12	0	12	0
229	LORAS COLLEGE	12	0	12	0
230	UNIVERSITY OF GUAM	12	6	6	0
	TOTAL, 1ST 230 INSTS.	26,118	9,919	16,199	7
231	MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	12	10	2	0
232	ADAMS STATE UNIVERSITY	11	11	0	0
[illegible]	COPPIN STATE COLLEGE	11	7	4	0
234	MOUNT HOLYOKE COLLEGE	10	8	2	0
235	PAN AMERICAN UNIVERSITY	10	4	6	0
236	UNIVERSITY OF NORTH CAROLINA/WILMINGTON	10	2	8	0
237	SOUTHEAST MISSOURI STATE UNIVERSITY	10	7	3	0
238	MANSFIELD UNIVERSITY OF PENNSYLVANIA	9	7	2	0
239	ALABAMA STATE UNIVERSITY	9	7	2	0
240	ST CLOUD STATE UNIVERSITY	9	6	3	0
	TOTAL, 1ST 240 INSTS.	26,219	9,988	16,231	7
241	QUINNIPIAC COLLEGE	8	8	0	0
242	EAST CENTRAL OKLAHOMA STATE UNIVERSITY	8	4	4	0
243	TARLETON STATE UNIVERSITY	8	5	3	0
244	SUNY COLLEGE AT POTSDAM	8	1	7	0
245	WURTHROP UNIVERSITY	8	2	6	0
246	SOUTHEASTERN LOUISIANA UNIVERSITY	7	5	2	0
247	HENDERSON STATE UNIVERSITY	7	1	6	0
248	WESTERN CONNECTICUT STATE UNIVERSITY	6	0	6	0
249	BEMIDJI STATE UNIVERSITY	6	3	3	0
250	SUNY COLLEGE AT FREDONIA	6	5	1	0
	TOTAL, 1ST 250 INSTS.	26,291	10,022	16,269	7

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TABLE E-8. -- MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
251 VALPARAISO UNIVERSITY	6	4	2	0
252 WILLIAMS COLLEGE	6	6	0	0
253 DREW UNIVERSITY	6	2	4	0
254 WESTERN STATE COLLEGE OF COLORADO	6	5	1	0
255 SUNY COLLEGE AT CORTLAND	6	5	1	0
256 INCARNATE WORD COLLEGE	6	6	0	0
257 UNIVERSITY OF WISCONSIN - PLATTEVILLE	6	3	3	0
258 BUCKNELL UNIVERSITY	5	4	1	1
259 CUNY COLLEGE OF STATEN ISLAND ST GEORGE	5	0	5	0
260 KEARNEY STATE COLLEGE	5	3	2	0
TOTAL, 1ST 260 INSTS.	26,348	10,060	16,288	8
261 MILWAUKEE SCHOOL OF ENGINEERING	4	0	4	0
262 MOLLINS COLLEGE	4	3	1	0
263 COOPER UNION	4	1	3	0
264 WALLA WALLA COLLEGE	3	3	0	0
265 WILKES COLLEGE	3	0	3	0
266 NIAGARA UNIVERSITY	3	3	0	0
267 PACIFIC STATES UNIVERSITY	3	2	1	0
268 BRIDGEWATER STATE COLLEGE	3	0	3	0
269 PACIFIC UNIVERSITY	3	3	0	0
270 VASSAR COLLEGE	3	0	3	0
TOTAL, 1ST 270 INSTS.	26,381	10,075	16,306	8
271 OCCIDENTAL COLLEGE	2	2	0	0
272 MIDDLEBURY COLLEGE	2	2	0	0
273 STETSON UNIVERSITY	2	0	2	0
274 SUNY COLLEGE AT ONEONTA	2	0	2	0
275 SLIPPERY ROCK UNIVERSITY OF PENNSYLVANIA	2	2	0	0
276 UNIVERSITY OF WISCONSIN - RIVER FALLS	2	1	1	0
277 LYNCHBURG COLLEGE	1	0	1	0
278 FURMAN UNIVERSITY	1	1	0	0
279 WHITTIER COLLEGE	1	1	0	0
280 HARVEY MUDD COLLEGE	1	1	0	0
TOTAL, 1ST 280 INSTS.	26,397	10,085	16,312	8
281 SANFORD UNIVERSITY	1	0	1	0
282 ROSE-HULMAN INSTITUTE OF TECHNOLOGY	1	1	0	0
283 MIDWEST COLLEGE OF ENGINEERING	1	0	1	0
284 CHEYNEY UNIVERSITY OF PENNSYLVANIA	1	0	1	0
285 UNIVERSITY OF NORTH ALABAMA	1	0	1	0
286 ROLLINS COLLEGE	1	0	1	0
287 WEST VIRGINIA INSTITUTE OF TECHNOLOGY	1	1	0	0
288 DE PAUW UNIVERSITY	1	1	0	0
289 LOYOLA UNIVERSITY IN NEW ORLEANS	1	0	1	0
290 WORLD UNIVERSITY	0	0	0	0
TOTAL, 1ST 290 INSTS.	26,406	10,088	16,318	8
291 SWARTHMORE COLLEGE	0	0	0	0
292 MISSISSIPPI COLLEGE	0	0	0	0
293 SALEM STATE COLLEGE	0	0	0	0
TOTAL, 1ST 293 INSTS.	26,406	10,088	16,318	8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-9. — MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

	INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
	TOTAL, ALL INSTITUTIONS	3,641	1,478	2,163
1	JACKSON STATE UNIVERSITY	179	80	99
2	CALIF STATE UNIV AT DOMINGUEZ HILLS	179	147	32
3	GOVERNORS STATE UNIVERSITY	164	21	143
4	CALIF STATE UNIV AT LONG BEACH	149	17	132
5	TENNESSEE STATE UNIVERSITY	138	47	91
6	CALIF STATE UNIV AT LOS ANGELES	107	37	70
7	ROOSEVELT UNIVERSITY	102	7	95
8	NORTH CAROLINA A & T STATE UNIVERSITY	80	55	25
9	BISCAYNE COLLEGE	77	26	51
10	PRAIRIE VIEW A & M UNIVERSITY	74	62	12
	TOTAL, 1ST 10 INSTS.	1,249	499	750
11	ALABAMA A & M UNIVERSITY	70	51	19
12	HAMPTON INSTITUTE	69	56	13
13	UNIVERSITY OF THE DISTRICT OF COLUMBIA	57	33	24
14	UNIVERSITY OF LA VERNE	56	6	50
15	NORTH CAROLINA CENTRAL UNIVERSITY	54	27	27
16	UNIVERSITY OF BALTIMORE	52	13	39
17	CALIF STATE UNIV AT HAYWARD	51	11	40
18	SOUTHERN UNIVERSITY A & M COLLEGE	49	18	31
19	SANGAMON STATE UNIVERSITY	45	7	38
20	UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	44	14	30
	TOTAL, 1ST 20 INSTS.	1,796	735	1,061
21	TUSKEGEE INSTITUTE	44	44	0
22	ARKANSAS STATE UNIVERSITY	44	15	29
23	CUNY BERNARD BARUCH COLLEGE	43	8	35
24	SAN JOSE STATE UNIVERSITY	41	10	31
25	MARYMOOD COLLEGE	40	11	29
26	MORGAN STATE UNIVERSITY	38	22	16
27	COLLEGE OF NEW ROCHELLE	34	2	32
28	GEORGE WILLIAMS COLLEGE	33	8	25
29	NATIONAL UNIVERSITY	32	25	7
30	SAN FRANCISCO STATE UNIVERSITY	32	22	10
	TOTAL, 1ST 30 INSTS.	2,177	902	1,275
31	TOWSON STATE UNIVERSITY	32	4	28
32	SOUTHWEST TEXAS STATE UNIVERSITY	32	6	26
33	EASTERN MICHIGAN UNIVERSITY	31	14	17
34	JOHN F KENNEDY UNIVERSITY	31	11	20
35	NORTHWESTERN STATE UNIV OF LOUISIANA	31	15	16
36	UNIVERSITY OF ARKANSAS AT LITTLE ROCK	30	3	27
37	ROCHESTER INSTITUTE OF TECHNOLOGY	29	2	27
38	WEST VIRGINIA COLLEGE OF GRAD STUDIES	28	5	23
39	LOYOLA COLLEGE	28	2	26
40	UNIVERSITY OF SAN FRANCISCO	28	26	2
	TOTAL, 1ST 40 INSTS.	2,477	990	1,487
41	IONA COLLEGE	27	0	27
42	CHICAGO STATE UNIVERSITY	24	3	21
43	MONTCLAIR STATE COLLEGE	23	1	22
44	SEATTLE UNIVERSITY	22	12	10
45	JACKSONVILLE STATE UNIVERSITY	22	12	10
46	MIDDLE TENNESSEE STATE UNIVERSITY	21	9	12
47	COPPIN STATE COLLEGE	21	6	15
48	WEST CHESTER UNIVERSITY OF PENNSYLVANIA	20	3	17
49	BARRY UNIVERSITY	20	4	16
50	CALIF STATE UNIVERSITY AT SACRAMENTO	20	20	0
	TOTAL, 1ST 50 INSTS.	2,697	1,060	1,637

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TABLE E-9. — MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
51 CALIF STATE UNIV AT FULLERTON	19	0	19
52 UNIVERSITY OF CENTRAL ARKANSAS	19	16	3
53 VIRGINIA STATE UNIVERSITY	19	16	3
54 ANTIOCH UNIVERSITY	19	19	0
55 FISK UNIVERSITY	18	14	4
56 UNIVERSITY OF TEXAS AT SAN ANTONIO	18	2	16
57 CALIF STATE UNIVERSITY AT FRESNO	18	7	11
58 LOYOLA MARYMOUNT UNIVERSITY	17	8	9
59 UNIV OF NORTH CAROLINA AT CHARLOTTE	17	5	12
60 PITTSBURG STATE UNIVERSITY	16	4	12
TOTAL, 1ST 60 INSTS.	2,877	1,151	1,726
61 PEPPERDINE UNIVERSITY	16	8	8
62 TROY STATE UNIVERSITY AT MONTGOMERY	16	13	3
63 CALIF STATE UNIVERSITY AT NORTHRIDGE	16	4	12
64 SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	16	12	4
65 CENTRAL MISSOURI STATE UNIVERSITY	15	11	4
66 SOUTHERN CONNECTICUT STATE UNIVERSITY	15	9	6
67 ST MARY'S UNIVERSITY OF SAN ANTONIO	15	5	10
68 ALABAMA STATE UNIVERSITY	15	12	3
69 CALIF STATE POLYTECHNIC UNIV AT POMONA	14	2	12
70 CUNY QUEENS COLLEGE	14	5	9
TOTAL, 1ST 70 INSTS.	3,029	1,232	1,797
71 AMERICAN INTERNATIONAL COLLEGE	14	6	8
72 UNIVERSITY OF BRIDGEPORT	14	1	13
73 UNIVERSITY OF WEST FLORIDA	13	6	7
74 NORTHEASTERN ILLINOIS UNIVERSITY	13	1	12
75 RUSSELL SAGE COLLEGE	13	1	12
76 TEXAS SOUTHERN UNIVERSITY	13	9	4
77 TRINITY UNIVERSITY	13	10	3
78 UNIVERSITY OF HARTFORD	13	2	11
79 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	12	8	4
80 UNIVERSITY OF TEXAS AT TYLER	12	2	10
TOTAL, 1ST 80 INSTS.	3,159	1,278	1,881
81 VALDOSTA STATE COLLEGE	11	8	3
82 HOOD COLLEGE	10	1	9
83 UNIVERSITY OF ALASKA AT ANCHORAGE	10	1	9
84 MCNEESE STATE UNIVERSITY	10	4	6
85 WESTERN KENTUCKY UNIVERSITY	10	1	9
86 CHAPMAN COLLEGE	9	1	8
87 SONOMA STATE UNIVERSITY	9	1	8
88 GEORGIA COLLEGE	9	4	5
89 MILLIAM PATERSON COLLEGE	9	3	6
90 COLLEGE OF CHARLESTON	9	6	3
TOTAL, 1ST 90 INSTS.	3,255	1,308	1,947
91 UNIVERSITY OF WISCONSIN - STOUT	9	4	5
92 XAVIER UNIVERSITY	8	7	1
93 WESTERN CAROLINA UNIVERSITY	8	2	6
94 AMERICAN TECHNOLOGICAL UNIVERSITY	8	6	2
95 GEORGIA SOUTHERN COLLEGE	8	3	5
96 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	8	2	6
97 TRENTON STATE COLLEGE	8	0	8
98 AUSTIN PEAY STATE UNIVERSITY	8	3	5
99 MIDWESTERN STATE UNIVERSITY	7	0	7
100 KEAN COLLEGE OF NEW JERSEY	7	0	7
TOTAL, 1ST 100 INSTS.	3,334	1,335	1,999

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TABLE E-9. -- MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
101 UNIVERSITY OF NEVADA AT LAS VEGAS	7	6	1
102 MILWAUKEE SCHOOL OF ENGINEERING	7	0	7
103 INDIANA UNIVERSITY OF PENNSYLVANIA	7	7	0
104 SUFFOLK UNIVERSITY	7	4	3
105 ST MARY'S COLLEGE	7	1	6
106 CALIF STATE COLLEGE AT SAN BERNARDINO	6	4	2
107 CALIF STATE COLLEGE OF STANISLAUS	6	2	4
108 FORT HAYS STATE UNIVERSITY	6	5	1
109 WASHINGTON COLLEGE	6	0	6
110 MONTEREY INST OF INTL STUDIES	6	6	0
TOTAL, 1ST 110 INSTS.	3,399	1,370	2,029
111 ROLLINS COLLEGE	6	1	5
112 UNIVERSITY OF SCRANTON	6	2	4
113 EASTERN WASHINGTON UNIVERSITY	6	2	4
114 PACIFIC LUTHERAN UNIVERSITY	6	0	6
115 NORTHROP UNIVERSITY	5	0	5
116 SPALDING UNIVERSITY	5	0	5
117 WEST TEXAS STATE UNIVERSITY	5	0	5
118 RHODE ISLAND COLLEGE	5	3	2
119 NEW MEXICO HIGHLANDS UNIVERSITY	5	5	0
120 UNIVERSITY OF WISCONSIN - OSHKOSH	5	3	2
TOTAL, 1ST 120 INSTS.	3,453	1,386	2,067
121 ANDREWS UNIVERSITY	5	3	2
122 MANKATO STATE UNIVERSITY	5	3	2
123 ST JOSEPH COLLEGE	5	0	5
124 MANHATTAN COLLEGE	5	2	3
125 CORPUS CHRISTI STATE UNIVERSITY	5	0	5
126 EASTERN KENTUCKY UNIVERSITY	5	4	1
127 ANNA MARIA COLLEGE	4	1	3
128 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	4	1	3
129 RADFORD UNIVERSITY	4	3	1
130 WEST COAST UNIVERSITY	4	3	1
TOTAL, 1ST 130 INSTS.	3,499	1,406	2,093
131 WESTERN ILLINOIS UNIVERSITY	4	4	0
132 EMPORIA STATE UNIVERSITY - KANSAS	4	4	0
133 MISSISSIPPI UNIVERSITY FOR WOMEN	4	3	1
134 DRAKE UNIVERSITY	4	2	2
135 THE HARTFORD GRADUATE CENTER	4	0	4
136 UNIVERSITY OF REDLANDS	3	2	1
137 CHEYNEY UNIVERSITY OF PENNSYLVANIA	3	0	3
138 TEXAS A & I UNIVERSITY	3	2	1
139 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	3	1	2
140 FLORIDA INTERNATIONAL UNIVERSITY	3	2	1
TOTAL, 1ST 140 INSTS.	3,534	1,426	2,108
141 BRADLEY UNIVERSITY	3	2	1
142 EDINBORO UNIVERSITY OF PENNSYLVANIA	3	1	2
143 PRATT INSTITUTE	3	1	2
144 GANNON UNIVERSITY	3	0	3
145 WINTHROP COLLEGE	3	3	0
146 EASTERN ILLINOIS UNIVERSITY	2	2	0
147 WESTERN WASHINGTON UNIVERSITY	2	1	1
148 UNIVERSITY OF WISCONSIN - GREEN BAY	2	0	2
149 QUINNIPIAC COLLEGE	2	0	2
150 UNIVERSITY OF WISCONSIN - WHITEWATER	2	2	0
TOTAL, 1ST 150 INSTS.	3,559	1,438	2,121

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TABLE E-9. -- MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING		TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
151	EASTERN NEW MEXICO UNIVERSITY	2	0	2
152	UNIVERSITY OF NEW HAVEN	2	0	2
153	UNIVERSITY OF SAN DIEGO	2	1	1
154	JAMES MADISON UNIVERSITY	2	2	0
155	MURRAY STATE UNIVERSITY	2	2	0
156	AUGUSTA COLLEGE	2	2	0
157	WESTERN NEW ENGLAND COL	2	0	2
158	NORTHERN MICHIGAN UNIVERSITY	2	0	2
159	ANGELO STATE UNIVERSITY	2	0	2
160	SUNY COLLEGE AT OSWEGO	2	2	0
	TOTAL, 1ST 160 INSTS.	3,579	1,447	2,132
161	KUTZTOWN UNIVERSITY OF PENNSYLVANIA	2	1	1
162	WESTERN OREGON STATE COLLEGE	2	2	0
163	APPALACHIAN STATE UNIVERSITY	2	2	0
164	SARAH LAWRENCE COLLEGE	2	1	1
165	SUNY COLLEGE AT BROCKPORT	2	1	1
166	SUNY COLLEGE AT BUFFALO	2	0	2
167	WIDENER UNIVERSITY	2	0	2
168	ST JOSEPH'S UNIVERSITY	2	0	2
169	MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	2	1	1
170	EAST STROUDSBURG UNIV OF PENNSYLVANIA	2	1	1
	TOTAL, 1ST 170 INSTS.	3,599	1,456	2,143
171	FLORIDA A & M UNIVERSITY	2	2	0
172	ARMSTRONG STATE COLLEGE	1	0	1
173	CUNY BROOKLYN COLLEGE	1	1	0
174	NIAGARA UNIVERSITY	1	1	0
175	RIVIER COLLEGE	1	0	1
176	WAGNER COLLEGE	1	0	1
177	COLLEGE OF ST ROSE	1	1	0
178	SUNY COLLEGE AT NEW PALTZ	1	1	0
179	BUTLER UNIVERSITY	1	0	1
180	JACKSONVILLE UNIVERSITY	1	0	1
	TOTAL, 1ST 180 INSTS.	3,610	1,462	2,148
181	BEMIDJI STATE UNIVERSITY	1	1	0
182	MARIST COLLEGE	1	0	1
183	GRAND VALLEY STATE COLLEGES	1	0	1
184	UNIVERSITY OF MASSACHUSETTS-BOSTON	1	0	1
185	MOREHEAD STATE UNIVERSITY	1	1	0
186	DREW UNIVERSITY	1	0	1
187	UNIVERSITY OF PORTLAND	1	1	0
188	UNIVERSITY OF WISCONSIN - RIVER FALLS	1	1	0
189	UNIVERSITY OF WISCONSIN - PLATTEVILLE	1	1	0
190	TRINITY COLLEGE	1	0	1
	TOTAL, 1ST 190 INSTS.	3,620	1,467	2,153
191	CENTRAL WASHINGTON UNIVERSITY	1	1	0
192	BUCKNELL UNIVERSITY	1	1	0
193	PACIFIC STATES UNIVERSITY	1	0	1
194	AZUSA PACIFIC UNIVERSITY	1	1	0
195	CALIFORNIA LUTHERAN COLLEGE	1	0	1
196	BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	1	0	1
197	CALIFORNIA UNIVERSITY OF PENNSYLVANIA	1	1	0
198	UNIVERSITY OF ALASKA SOUTHEAST	1	0	1
199	GODDARD COLLEGE	1	1	0
200	CALIF STATE UNIVERSITY AT CHICO	1	1	0
	TOTAL, 1ST 200 INSTS.	3,630	1,473	2,157

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TABLE E-9. -- MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING		TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
201	HUMBOLDT STATE UNIVERSITY	1	0	1
202	UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	1	0	1
203	SUL ROSS STATE UNIVERSITY	1	1	0
204	DOMINICAN COLLEGE OF SAN RAFAEL	1	0	1
205	SLIPPERY ROCK UNIVERSITY OF PENNSYLVANIA	1	1	0
206	CENTRAL CONNECTICUT STATE UNIVERSITY	1	0	1
207	CITADEL MILITARY COLL OF SOUTH CAROLINA	1	0	1
208	WHITWORTH COLLEGE	1	1	0
209	UNIVERSITY OF RICHMOND	1	0	1
210	UNIVERSITY OF WISCONSIN - LA CROSSE	1	1	0
	TOTAL, 1ST 210 INSTS.	3,640	1,477	2,163
211	WEST VIRGINIA INSTITUTE OF TECHNOLOGY	1	1	0
212	SUNY COLLEGE AT CORTLAND	0	0	0
213	WILKES COLLEGE	0	0	0
214	SUNY COLLEGE AT FREDONIA	0	0	0
215	SWARTHMORE COLLEGE	0	0	0
216	SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	0	0	0
217	GALLAUDET COLLEGE	0	0	0
218	SUNY COLLEGE AT GENESEO	0	0	0
219	YOUNGSTOWN STATE UNIVERSITY	0	0	0
220	ITHACA COLLEGE	0	0	0
	TOTAL, 1ST 220 INSTS.	3,641	1,478	2,163
221	FURMAN UNIVERSITY	0	0	0
222	MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	0	0	0
223	SUNY COLLEGE AT ONEONTA	0	0	0
224	PACIFIC UNIVERSITY	0	0	0
225	PAN AMERICAN UNIVERSITY	0	0	0
226	WESTERN CONNECTICUT STATE UNIVERSITY	0	0	0
227	VASSAR COLLEGE	0	0	0
228	SUNY COLLEGE AT POTSDAM	0	0	0
229	MANSFIELD UNIVERSITY OF PENNSYLVANIA	0	0	0
230	SUNY COLLEGE AT PLATTSBURGH	0	0	0
	TOTAL, 1ST 230 INSTS.	3,641	1,478	2,163
231	JOHN CARROLL UNIVERSITY	0	0	0
232	WESTERN STATE COLLEGE OF COLORADO	0	0	0
233	ADAMS STATE UNIVERSITY	0	0	0
234	STETSON UNIVERSITY	0	0	0
235	UNIVERSITY OF NORTH CAROLINA/WILMINGTON	0	0	0
236	SOUTHERN OREGON STATE COLLEGE	0	0	0
237	COOPER UNION	0	0	0
238	WOLLINS COLLEGE	0	0	0
239	CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	0	0	0
240	NICHOLLS STATE UNIVERSITY	0	0	0
	TOTAL, 1ST 240 INSTS.	3,641	1,478	2,163
241	MISSISSIPPI COLLEGE	0	0	0
242	UNIVERSITY OF MONTEVALLO	0	0	0
243	ST CLOUD STATE UNIVERSITY	0	0	0
244	MONMOUTH COLLEGE(NJ)	0	0	0
245	MOORHEAD STATE UNIVERSITY	0	0	0
246	DE PAUW UNIVERSITY	0	0	0
247	WEST GEORGIA COLLEGE	0	0	0
248	UNIVERSITY OF PUGET SOUND	0	0	0
249	WALLA WALLA COLLEGE	0	0	0
250	WILLIAMS COLLEGE	0	0	0
	TOTAL, 1ST 250 INSTS.	3,641	1,478	2,163

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TABLE E-9. — MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING		TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
251	KEARNEY STATE COLLEGE	0	0	0
252	ABILENE CHRISTIAN UNIVERSITY	0	0	0
253	MOUNT HOLYOKE COLLEGE	0	0	0
254	WORCESTER STATE COLLEGE	0	0	0
255	SALEM STATE COLLEGE	0	0	0
256	UNIVERSITY OF WISCONSIN - EAU CLAIRE	0	0	0
257	EAST CENTRAL OKLAHOMA STATE UNIVERSITY	0	0	0
258	SOUTHWEST MISSOURI STATE UNIVERSITY	0	0	0
259	INCARNATE WORD COLLEGE	0	0	0
260	UNIVERSITY OF WISCONSIN - STEVENS POINT	0	0	0
	TOTAL, 1ST 260 INSTS.	3,641	1,478	2,163
261	FRAMINGHAM STATE COLLEGE	0	0	0
262	UNIVERSITY OF GUAM	0	0	0
263	OCCIDENTAL COLLEGE	0	0	0
264	BRIDGEWATER STATE COLLEGE	0	0	0
265	EMERSON COLLEGE	0	0	0
266	WORLD UNIVERSITY	0	0	0
267	CONNECTICUT COLLEGE	0	0	0
268	ASSUMPTION COLLEGE	0	0	0
269	HARVEY MUDD COLLEGE	0	0	0
270	UNIVERSITY OF EVANSVILLE	0	0	0
	TOTAL, 1ST 270 INSTS.	3,641	1,478	2,163
271	INDIANA CENTRAL UNIVERSITY	0	0	0
272	ROSE-HULMAN INSTITUTE OF TECHNOLOGY	0	0	0
273	TARLETON STATE UNIVERSITY	0	0	0
274	SAINT FRANCIS COLLEGE	0	0	0
275	SOUTHEAST MISSOURI STATE UNIVERSITY	0	0	0
276	CLARION UNIVERSITY OF PENNSYLVANIA	0	0	0
277	CALIF POLY STATE UNIV AT SAN LUIS OBISPO	0	0	0
278	VALPARAISO UNIVERSITY	0	0	0
279	FROSTBURG STATE COLLEGE	0	0	0
280	NORTHWEST MISSOURI STATE UNIVERSITY	0	0	0
	TOTAL, 1ST 280 INSTS.	3,641	1,478	2,163
281	LORAS COLLEGE	0	0	0
282	SOUTHEASTERN LOUISIANA UNIVERSITY	0	0	0
283	MIDWEST COLLEGE OF ENGINEERING	0	0	0
284	WASHBURN UNIVERSITY OF TOPEKA	0	0	0
285	MIDDLEBURY COLLEGE	0	0	0
286	WHITTIER COLLEGE	0	0	0
287	HENDERSON STATE UNIVERSITY	0	0	0
288	LOYOLA UNIVERSITY IN NEW ORLEANS	0	0	0
289	CUNY COLLEGE OF STATEN ISLAND ST GEORGE	0	0	0
290	SAMFORD UNIVERCITY	0	0	0
	TOTAL, 1ST 290 INSTS.	3,641	1,478	2,163
291	LYNCHBURG COLLEGE	0	0	0
292	UNIVERSITY OF NORTH ALABAMA	0	0	0
293	NORTHEAST MISSOURI STATE UNIVERSITY	0	0	0
	TOTAL, 1ST 293 INSTS.	3,641	1,478	2,163

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-10. — MASTER'S-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

INSTITUTIONAL RANKING	FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	4,785	2,891	1,894	12
1 CALIF STATE UNIV AT FULLERTON	315	58	257	0
2 CALIF STATE UNIVERSITY AT NORTHRIDGE	233	122	111	0
3 SAN JOSE STATE UNIVERSITY	193	74	119	0
4 CALIF STATE UNIV AT LONG BEACH	190	51	139	0
5 SAN FRANCISCO STATE UNIVERSITY	112	69	43	1
6 MANKATO STATE UNIVERSITY	109	92	17	0
7 NORTH CAROLINA A & T STATE UNIVERSITY	106	86	20	1
8 ROOSEVELT UNIVERSITY	102	79	23	0
9 MANHATTAN COLLEGE	102	71	31	0
10 CALIF STATE UNIV AT LOS ANGELES	96	45	51	0
TOTAL, 1ST 10 INSTS.	1,558	747	811	2
11 UNIVERSITY OF SAN FRANCISCO	93	87	6	0
12 EASTERN MICHIGAN UNIVERSITY	88	70	18	0
13 LOYOLA MARYMOUNT UNIVERSITY	87	47	40	0
14 CALIF STATE UNIVERSITY AT FRESNO	87	58	29	0
15 CUNY BERNARD BARUCH COLLEGE	86	36	50	0
16 ALABAMA A & M UNIVERSITY	78	66	12	1
17 UNIVERSITY OF BRIDGEPORT	75	44	31	0
18 CUNY QUEENS COLLEGE	72	15	57	4
19 TEXAS A & I UNIVERSITY	71	67	4	0
20 TUSKEGEE INSTITUTE	69	68	1	0
TOTAL, 1ST 20 INSTS.	2,364	1,305	1,059	7
21 MONTCLAIR STATE COLLEGE	62	14	48	0
22 WESTERN ILLINOIS UNIVERSITY	62	60	2	0
23 SANGAMON STATE UNIVERSITY	58	35	23	0
24 SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	57	37	20	0
25 UNIVERSITY OF WISCONSIN - STOUT	52	44	8	0
26 SOUTHWEST TEXAS STATE UNIVERSITY	51	35	16	0
27 JACKSON STATE UNIVERSITY	50	36	14	0
28 TENNESSEE STATE UNIVERSITY	49	13	36	0
29 CALIF STATE UNIVERSITY AT CHICO	44	41	3	0
30 UNIVERSITY OF NEW HAVEN	44	34	10	0
TOTAL, 1ST 30 INSTS.	2,893	1,654	1,239	7
31 WEST COAST UNIVERSITY	40	35	5	0
32 YOUNGSTOWN STATE UNIVERSITY	40	27	13	0
33 THE HARTFORD GRADUATE CENTER	40	4	36	0
34 PRAIRIE VIEW A & M UNIVERSITY	39	35	4	0
35 ROCHESTER INSTITUTE OF TECHNOLOGY	38	18	20	0
36 BRADLEY UNIVERSITY	38	20	18	0
37 MIDDLE TENNESSEE STATE UNIVERSITY	37	23	14	0
38 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	37	24	13	0
39 SEATTLE UNIVERSITY	36	21	15	0
40 UNIVERSITY OF THE DISTRICT OF COLUMBIA	36	17	19	0
TOTAL, 1ST 40 INSTS.	3,274	1,878	1,396	7
41 ANTIOCH UNIVERSITY	32	31	1	0
42 ST MARY'S UNIVERSITY OF SAN ANTONIO	31	21	10	0
43 UNIVERSITY OF NEVADA AT LAS VEGAS	29	27	2	0
44 UNIVERSITY OF LA VERNE	28	28	0	0
45 WEST CHESTER UNIVERSITY OF PENNSYLVANIA	27	13	14	0
46 EASTERN WASHINGTON UNIVERSITY	27	22	5	1
47 PITTSBURG STATE UNIVERSITY	25	24	1	0
48 BISCAYNE COLLEGE	25	18	7	0
49 WESTERN WASHINGTON UNIVERSITY	24	18	6	0
50 NORTHROP UNIVERSITY	24	5	19	0
TOTAL, 1ST 50 INSTS.	3,546	2,085	1,461	8

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TABLE E-10. — MASTER'S-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
51 TEXAS SOUTHERN UNIVERSITY	24	19	5	0
52 JOHN F KENNEDY UNIVERSITY	24	18	6	0
53 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	23	10	13	0
54 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	23	18	5	0
55 ARKANSAS STATE UNIVERSITY	22	21	1	0
56 UNIVERSITY OF SCRANTON	22	11	11	0
57 UNIVERSITY OF ALASKA AT ANCHORAGE	20	12	8	0
58 PEPPERDINE UNIVERSITY	20	15	5	0
59 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	19	10	9	0
60 UNIVERSITY OF HARTFORD	19	10	9	0
TOTAL, 1ST 60 INSTS.	3,762	2,229	1,533	8
61 MARYWOOD COLLEGE	19	11	8	0
62 WILLIAMS COLLEGE	19	19	0	0
63 TARLETON STATE UNIVERSITY	18	13	5	0
64 SOUTHERN UNIVERSITY A & M COLLEGE	18	16	2	0
65 CALIF STATE UNIVERSITY AT SACRAMENTO	18	18	0	0
66 MORGAN STATE UNIVERSITY	18	11	7	0
67 NATIONAL UNIVERSITY	18	18	0	0
68 MONTEREY INST OF INTL STUDIES	17	15	2	0
69 WESTERN KENTUCKY UNIVERSITY	17	15	2	0
70 EASTERN ILLINOIS UNIVERSITY	17	17	0	0
TOTAL, 1ST 70 INSTS.	3,941	2,382	1,559	8
71 TRINITY UNIVERSITY	17	8	9	2
72 GODDARD COLLEGE	16	16	0	0
73 INDIANA UNIVERSITY OF PENNSYLVANIA	16	14	2	0
74 UNIVERSITY OF ARKANSAS AT LITTLE ROCK	16	15	1	0
75 EASTERN NEW MEXICO UNIVERSITY	15	14	1	0
76 FLORIDA A & M UNIVERSITY	15	12	3	0
77 CHAPMAN COLLEGE	15	4	11	0
78 MONMOUTH COLLEGE(NJ)	15	5	10	0
79 LOYOLA COLLEGE	15	6	9	0
80 NORTHEAST MISSOURI STATE UNIVERSITY	14	6	8	0
TOTAL, 1ST 80 INSTS.	4,095	2,482	1,613	10
81 PRATT INSTITUTE	14	8	6	0
82 MIDWESTERN STATE UNIVERSITY	14	1	13	0
83 UNIVERSITY OF MASSACHUSETTS-BOSTON	14	7	7	0
84 WAGNER COLLEGE	13	6	7	0
85 UNIVERSITY OF BALTIMORE	13	9	4	0
86 UNIVERSITY OF WEST FLORIDA	13	7	6	0
87 WIDENER UNIVERSITY	13	8	5	0
88 NORTH CAROLINA CENTRAL UNIVERSITY	12	8	4	0
89 WORCESTER STATE COLLEGE	12	0	12	0
90 NORTHWEST MISSOURI STATE UNIVERSITY	12	9	3	0
TOTAL, 1ST 90 INSTS.	4,225	2,545	1,680	10
91 NEW MEXICO HIGHLANDS UNIVERSITY	11	11	0	0
92 PACIFIC STATES UNIVERSITY	11	9	2	0
93 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	11	9	2	0
94 PACIFIC LUTHERAN UNIVERSITY	11	7	4	0
95 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	11	10	1	0
96 RUSSELL SAGE COLLEGE	10	9	1	0
97 EMPORIA STATE UNIVERSITY - KANSAS	10	7	3	0
98 EASTERN KENTUCKY UNIVERSITY	10	10	0	0
99 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	10	10	0	0
100 UNIVERSITY OF PORTLAND	10	5	5	0
TOTAL, 1ST 100 INSTS.	4,330	2,632	1,698	10

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TABLE E-10. — MASTER'S-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING	FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
101 GANNON UNIVERSITY	10	7	3	0
102 SONOMA STATE UNIVERSITY	9	7	2	0
103 ANGELO STATE UNIVERSITY	9	4	5	0
104 IONA COLLEGE	9	0	9	0
105 ROSE-HULMAN INSTITUTE OF TECHNOLOGY	9	8	1	0
106 UNIVERSITY OF TEXAS AT TYLER	9	2	7	0
107 CORPUS CHRISTI STATE UNIVERSITY	9	2	7	0
108 AMERICAN INTERNATIONAL COLLEGE	9	9	0	0
109 NORTHEASTERN ILLINOIS UNIVERSITY	8	2	6	0
110 UNIVERSITY OF SAN DIEGO	8	7	1	0
TOTAL, 1ST 110 INSTS.	4,419	2,680	1,739	10
111 UNIV OF NORTH CAROLINA AT CHARLOTTE	8	5	3	0
112 APPALACHIAN STATE UNIVERSITY	8	8	0	0
113 CALIFORNIA UNIVERSITY OF PENNSYLVANIA	8	4	4	0
114 HOOD COLLEGE	8	1	7	0
115 MCNEESE STATE UNIVERSITY	7	1	6	0
116 SUL ROSS STATE UNIVERSITY	7	7	0	0
117 VIRGINIA STATE UNIVERSITY	7	6	1	1
118 GOVERNORS STATE UNIVERSITY	7	4	3	0
119 HUMBOLDT STATE UNIVERSITY	7	6	1	0
120 CENTRAL MISSOURI STATE UNIVERSITY	7	7	0	0
TOTAL, 1ST 120 INSTS.	4,493	2,729	1,764	11
121 MILWAUKEE SCHOOL OF ENGINEERING	7	4	3	0
122 TOWSON STATE UNIVERSITY	6	4	2	0
123 BUTLER UNIVERSITY	6	1	5	0
124 GEORGE WILLIAMS COLLEGE	6	2	4	0
125 WEST VIRGINIA INSTITUTE OF TECHNOLOGY	6	5	1	0
126 CALIF STATE COLLEGE OF STANISLAUS	6	3	3	0
127 KUTZTOWN UNIVERSITY OF PENNSYLVANIA	6	1	5	0
128 SUNY COLLEGE AT BUFFALO	6	2	4	0
129 UNIVERSITY OF WISCONSIN - PLATTEVILLE	6	6	0	0
130 EDINBORO UNIVERSITY OF PENNSYLVANIA	6	4	2	0
TOTAL, 1ST 130 INSTS.	4,554	2,761	1,793	11
131 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	6	2	4	0
132 SOUTHEAST MISSOURI STATE UNIVERSITY	6	6	0	0
133 UNIVERSITY OF WISCONSIN - OSHKOSH	5	5	0	0
134 FISK UNIVERSITY	5	5	0	0
135 JACKSONVILLE UNIVERSITY	5	0	5	0
136 WEST VIRGINIA COLLEGE OF GRAD STUDIES	5	1	4	0
137 BUCKNELL UNIVERSITY	5	5	0	0
138 CALIF STATE UNIV AT DOMINGUEZ HILLS	5	3	2	0
139 WEST TEXAS STATE UNIVERSITY	5	0	5	0
140 SOUTHERN OREGON STATE COLLEGE	5	3	2	0
TOTAL, 1ST 140 INSTS.	4,606	2,791	1,815	11
141 SOUTHERN CONNECTICUT STATE UNIVERSITY	5	1	4	0
142 CENTRAL CONNECTICUT STATE UNIVERSITY	5	5	0	0
143 TRENTON STATE COLLEGE	5	1	4	0
144 UREM UNIVERSITY	4	0	4	0
145 ANDREWS UNIVERSITY	4	2	2	0
146 ST JOSEPH'S UNIVERSITY	4	1	3	0
147 UNIVERSITY OF RICHMOND	4	2	2	0
148 COPPIN STATE COLLEGE	4	3	1	0
149 ABILENE CHRISTIAN UNIVERSITY	4	2	2	0
150 WHITWORTH COLLEGE	4	4	0	0
TOTAL, 1ST 150 INSTS.	4,649	2,812	1,837	11

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TABLE E-10. — MASTER'S-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

- CONTINUED

INSTITUTIONAL RANKING		FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
151	WESTERN NEW ENGLAND COL	4	0	4	0
152	UNIVERSITY OF EVANSVILLE	4	2	2	0
153	MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	4	2	2	0
154	SUNY COLLEGE AT NEW PALTZ	4	3	1	0
155	WESTERN CAROLINA UNIVERSITY	4	4	0	0
156	MARIST COLLEGE	4	2	2	0
157	SUNY COLLEGE AT BROCKPORT	4	3	1	0
158	EAST STROUDSBURG UNIV OF PENNSYLVANIA	3	1	2	0
159	MOORHEAD STATE UNIVERSITY	3	3	0	0
160	SUFFOLK UNIVERSITY	3	1	2	0
	TOTAL, 1ST 160 INSTS.	4,686	2,833	1,853	11
161	CALIF STATE COLLEGE AT SAN BERNARDINO	3	3	0	0
162	HAMPTON INSTITUTE	3	3	0	0
163	UNIVERSITY OF WISCONSIN - RIVER FALLS	3	1	2	0
164	SARAH LAWRENCE COLLEGE	3	3	0	0
165	WESTERN OREGON STATE COLLEGE	3	3	0	0
166	UNIVERSITY OF WISCONSIN - EAU CLAIRE	3	2	1	0
167	SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	3	1	2	0
168	ASSUMPTION COLLEGE	3	1	2	0
169	UNIVERSITY OF NORTH CAROLINA/WILMINGTON	3	1	2	0
170	DRAKE UNIVERSITY	3	3	0	0
	TOTAL, 1ST 170 INSTS.	4,776	2,854	1,862	11
171	GRAND VALLEY STATE COLLEGES	2	0	2	0
172	UNIVERSITY OF MONTEVALLO	2	1	1	0
173	AZUSA PACIFIC UNIVERSITY	2	1	1	0
174	SOUTHWEST MISSOURI STATE UNIVERSITY	2	2	0	0
175	CONNECTICUT COLLEGE	2	2	0	0
176	NORTHWESTERN STATE UNIV OF LOUISIANA	2	2	0	0
177	SOUTHEASTERN LOUISIANA UNIVERSITY	2	2	0	0
178	UNIVERSITY OF REDLANDS	2	0	2	0
179	TUSKEGEE STATE UNIVERSITY AT MONTGOMERY	2	0	2	0
180	QUINNIPIAC COLLEGE	2	1	1	0
	TOTAL, 1ST 180 INSTS.	4,736	2,865	1,871	11
181	KEAN COLLEGE OF NEW JERSEY	2	1	1	0
182	UNIVERSITY OF ALASKA SOUTHEAST	2	0	2	0
183	MIDWEST COLLEGE OF ENGINEERING	2	0	2	0
184	UNIVERSITY OF WISCONSIN - GREEN BAY	2	1	1	0
185	WALLA WALLA COLLEGE	2	2	0	0
186	CENTRAL WASHINGTON UNIVERSITY	2	1	1	0
187	SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	2	1	1	0
188	CUNY COLLEGE OF STATEN ISLAND - ST GEORGE	2	0	2	0
189	RHODE ISLAND COLLEGE	2	1	1	0
190	PACIFIC UNIVERSITY	1	1	0	0
	TOTAL, 1ST 190 INSTS.	4,795	2,873	1,882	11
191	SUNY COLLEGE AT OSWEGO	1	1	0	0
192	VASSAR COLLEGE	1	0	1	0
193	SPALDING UNIVERSITY	1	0	1	0
194	ALABAMA STATE UNIVERSITY	1	1	0	0
195	EMERSON COLLEGE	1	1	0	0
196	ARMSTRONG STATE COLLEGE	1	0	1	0
197	UNIVERSITY OF WISCONSIN - WHITEWATER	1	1	0	0
198	CHEYNEY UNIVERSITY OF PENNSYLVANIA	1	1	0	0
199	INCARNATE WORD COLLEGE	1	1	0	0
200	COLLEGE OF NEW ROCHELLE	1	1	0	0
	TOTAL, 1ST 200 INSTS.	4,769	2,880	1,885	11

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TABLE E-10. — MASTER'S-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

CONTINUED

INSTITUTIONAL RANKING		FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
201	CUNY BROOKLYN COLLEGE	2	1	0	0
202	PAN AMERICAN UNIVERSITY	1	0	1	0
203	MOUNT HOLYOKE COLLEGE	1	1	0	0
204	UNIVERSITY OF CENTRAL ARKANSAS	1	0	1	0
205	SLIPPERY ROCK UNIVERSITY OF PENNSYLVANIA	1	1	0	0
206	KEARNEY STATE COLLEGE	1	1	0	0
207	UNIVERSITY OF PUGET SOUND	1	1	0	0
208	UNIVERSITY OF TEXAS AT SAN ANTONIO	1	0	1	1
209	HARVEY MUDD COLLEGE	1	1	0	0
210	WILKES COLLEGE	1	0	1	0
	TOTAL, 1ST 210 INSTS.	4,775	2,886	1,889	12
211	NICHOLLS STATE UNIVERSITY	1	1	0	0
212	CITADEL MILITARY COLL OF SOUTH CAROLINA	1	0	1	0
213	MOREHEAD STATE UNIVERSITY	1	1	0	0
214	ST MARY'S COLLEGE	1	0	1	0
215	WINTHROP COLLEGE	1	0	1	0
216	AUSTIN PEAY STATE UNIVERSITY	1	1	0	0
217	TRINITY COLLEGE	1	0	1	0
218	DOMINICAN COLLEGE OF SAN RAFAEL	1	1	0	0
219	BEMIDJI STATE UNIVERSITY	1	1	0	0
220	WEST GEORGIA COLLEGE	1	0	1	0
	TOTAL, 1ST 220 INSTS.	4,785	2,891	1,894	12
221	FURMAN UNIVERSITY	0	0	0	0
222	COLLEGE OF CHARLESTON	0	0	0	0
223	ST CLOUD STATE UNIVERSITY	0	0	0	0
224	FRAMINGHAM STATE COLLEGE	0	0	0	0
225	MANSFIELD UNIVERSITY OF PENNSYLVANIA	0	0	0	0
226	NORTHERN MICHIGAN UNIVERSITY	0	0	0	0
227	ITHACA COLLEGE	0	0	0	0
228	BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	0	0	0	0
229	COOPER UNION	0	0	0	0
230	FROSTBURG STATE COLLEGE	0	0	0	0
	TOTAL, 1ST 230 INSTS.	4,785	2,891	1,894	12
231	SUNY COLLEGE AT FREDONIA	0	0	0	0
232	XAVIER COLLEGE	0	0	0	0
233	MURRAY STATE UNIVERSITY	0	0	0	0
234	SWARTHMORE COLLEGE	0	0	0	0
235	MISSISSIPPI COLLEGE	0	0	0	0
236	MISSISSIPPI UNIVERSITY FOR WOMEN	0	0	0	0
237	SALEM STATE COLLEGE	0	0	0	0
238	NIAGARA UNIVERSITY	0	0	0	0
239	SUNY COLLEGE AT CORTLAND	0	0	0	0
240	JAMES MADISON UNIVERSITY	0	0	0	0
	TOTAL, 1ST 240 INSTS.	4,785	2,891	1,894	12
241	JOHN CARROLL UNIVERSITY	0	0	0	0
242	FORT HAYS STATE UNIVERSITY	0	0	0	0
243	LORAS COLLEGE	0	0	0	0
244	SUNY COLLEGE AT PLATTSBURGH	0	0	0	0
245	VALPARAISO UNIVERSITY	0	0	0	0
246	SAINT FRANCIS COLLEGE	0	0	0	0
247	INDIANA CENTRAL UNIVERSITY	0	0	0	0
248	COLLEGE OF ST ROSE	0	0	0	0
249	EAST CENTRAL OKLAHOMA STATE UNIVERSITY	0	0	0	0
250	DE PAUW UNIVERSITY	0	0	0	0
	TOTAL, 1ST 250 INSTS.	4,785	2,891	1,894	12

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TABLE E-10. — MASTER'S-GRANTING INSTITUTIONS RANKED BY FOREIGN SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1983

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	INSTITUTIONAL RANKING	FOREIGN GRADUATE STUDENTS	FOREIGN FULL-TIME STUDENTS	FOREIGN PART-TIME STUDENTS	FOREIGN POST-DOCTORATES
251	CHICAGO STATE UNIVERSITY	0	0	0	0
252	GEORGIA COLLEGE	0	0	0	0
253	BRIDGEWATER STATE COLLEGE	0	0	0	0
254	SUNY COLLEGE AT POTSDAM	0	0	0	0
255	VALDOSTA STATE COLLEGE	0	0	0	0
256	GEORGIA SOUTHERN COLLEGE	0	0	0	0
257	UNIVERSITY OF WISCONSIN - LA CROSSE	0	0	0	0
258	AUGUSTA COLLEGE	0	0	0	0
259	WASHINGTON COLLEGE	0	0	0	0
260	UNIVERSITY OF WISCONSIN - STEVENS POINT	0	0	0	0
	TOTAL, 1ST 260 INSTS.	4,785	2,891	1,894	12
261	ANNA MARIA COLLEGE	0	0	0	0
262	UNIVERSITY OF GUAM	0	0	0	0
263	STETSON UNIVERSITY	0	0	0	0
264	ROLLINS COLLEGE	0	0	0	0
265	BARRY UNIVERSITY	0	0	0	0
266	WORLD UNIVERSITY	0	0	0	0
267	GALLAUDET COLLEGE	0	0	0	0
268	LOYOLA UNIVERSITY IN NEW ORLEANS	0	0	0	0
269	ST JOSEPH COLLEGE	0	0	0	0
270	WESTERN CONNECTICUT STATE UNIVERSITY	0	0	0	0
	TOTAL, 1ST 270 INSTS.	4,785	2,891	1,894	12
271	WESTERN STATE COLLEGE OF COLORADO	0	0	0	0
272	ADAMS STATE UNIVERSITY	0	0	0	0
273	WHITTIER COLLEGE	0	0	0	0
274	OCCIDENTAL COLLEGE	0	0	0	0
275	SUNY COLLEGE AT GENESEO	0	0	0	0
276	CLARION UNIVERSITY OF PENNSYLVANIA	0	0	0	0
277	SUNY COLLEGE AT ONEONTA	0	0	0	0
278	CALIF STATE POLYTECHNIC UNIV AT POMONA	0	0	0	0
279	FLORIDA INTERNATIONAL UNIVERSITY	0	0	0	0
280	CALIF STATE UNIV AT HAYWARD	0	0	0	0
	TOTAL, 1ST 280 INSTS.	4,785	2,891	1,894	12
281	MOLLINS COLLEGE	0	0	0	0
282	CALIFORNIA LUTHERAN COLLEGE	0	0	0	0
283	XAVIER UNIVERSITY	0	0	0	0
284	HENDERSON STATE UNIVERSITY	0	0	0	0
285	LYNCHBURG COLLEGE	0	0	0	0
286	SAMFORD UNIVERSITY	0	0	0	0
287	JACKSONVILLE STATE UNIVERSITY	0	0	0	0
288	AMERICAN TECHNOLOGICAL UNIVERSITY	0	0	0	0
289	RADFORD UNIVERSITY	0	0	0	0
290	UNIVERSITY OF NORTH ALABAMA	0	0	0	0
	TOTAL, 1ST 290 INSTS.	4,785	2,891	1,894	12
291	MIDDLEBURY COLLEGE	0	0	0	0
292	WASHBURN UNIVERSITY OF TOPEKA	0	0	0	0
293	WILLIAM PATERSON COLLEGE	0	0	0	0
	TOTAL, 1ST 293 INSTS.	4,785	2,891	1,894	12

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

	INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
	TOTAL, ALL INSTITUTIONS	373,198	383,100	391,640	398,982	413,564
1	UNIVERSITY OF SOUTHERN CALIFORNIA	7,869	7,420	7,507	7,651	8,343
2	UNIVERSITY OF CALIF AT BERKELEY	5,640	5,513	5,598	5,400	5,381
3	UNIVERSITY OF MINNESOTA	4,993	5,097	5,209	5,202	5,249
4	UNIVERSITY OF WISCONSIN - MADISON	5,044	5,320	5,405	5,344	5,247
5	OHIO STATE UNIVERSITY	4,608	4,731	4,787	4,704	4,917
6	UNIV OF TEXAS AT AUSTIN	3,644	3,784	4,032	4,286	4,745
7	UNIVERSITY OF PITTSBURGH	3,154	3,649	4,558	4,643	4,694
8	UNIVERSITY OF ILLINOIS - URBANA	4,039	4,249	4,313	4,494	4,556
9	UNIVERSITY OF MICHIGAN	4,633	4,414	4,401	4,310	4,533
10	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	3,832	4,091	3,950	3,886	4,466
	TOTAL, 1ST 10 INSTS.	47,478	48,268	49,760	49,922	52,131
11	RUTGERS THE STATE UNIVERSITY	4,185	4,260	4,247	4,078	4,387
12	PURDUE UNIVERSITY	3,527	3,700	3,917	4,192	4,322
13	STANFORD UNIVERSITY	3,529	3,685	3,844	4,026	4,297
14	UNIVERSITY OF CALIF AT LOS ANGELES	4,184	4,220	4,266	4,084	4,198
15	UNIVERSITY OF WASHINGTON	4,529	4,701	4,231	3,870	3,958
16	TEXAS A & M UNIVERSITY	3,048	3,266	3,365	3,679	3,907
17	NEW YORK UNIVERSITY	4,490	3,302	3,372	3,911	3,853
18	PENNSYLVANIA STATE UNIVERSITY	3,142	3,335	3,573	3,503	3,557
19	NORTHEASTERN UNIVERSITY	3,296	3,428	3,426	3,399	3,539
20	GEORGE WASHINGTON UNIVERSITY	3,310	3,478	3,790	3,308	3,388
	TOTAL, 1ST 20 INSTS.	84,718	85,643	87,791	87,972	91,537
21	UNIVERSITY OF ARIZONA	2,839	3,209	3,169	3,199	3,295
22	MICHIGAN STATE UNIVERSITY	3,316	3,311	3,050	3,079	3,201
23	UNIVERSITY OF MARYLAND - COLLEGE PARK	2,647	2,700	2,867	2,975	3,196
24	UNIVERSITY OF COLORADO	3,594	3,545	3,517	3,501	3,187
25	CORNELL UNIVERSITY	2,832	2,980	3,048	3,011	3,113
26	COLUMBIA UNIVERSITY MAIN DIVISION	2,832	2,945	2,991	3,159	2,993
27	FLORIDA INSTITUTE OF TECHNOLOGY	2,830	2,120	2,715	2,720	2,904
28	UNIVERSITY OF FLORIDA	2,315	2,534	2,603	2,812	2,849
29	HARVARD UNIVERSITY	2,464	2,687	3,042	3,071	2,842
30	UNIVERSITY OF TENNESSEE AT KNOXVILLE	3,083	3,003	2,828	2,826	2,770
	TOTAL, 1ST 30 INSTS.	112,470	114,677	117,621	118,285	121,887
31	UNIV OF NORTH CAROLINA AT CHAPEL HILL	2,388	2,487	2,473	2,553	2,638
32	IOWA STATE UNIVERSITY OF SCI & TECH	2,370	2,385	2,432	2,581	2,637
33	NORTH CAROLINA STATE UNIV AT RALEIGH	2,142	2,221	2,252	2,527	2,634
34	BOSTON UNIVERSITY	1,907	2,436	2,539	2,482	2,592
35	UNIVERSITY OF PENNSYLVANIA	2,267	2,708	2,619	2,642	2,573
36	UNIVERSITY OF CALIF AT DAVIS	2,496	2,654	2,854	2,682	2,557
37	VIRGINIA POLYTECHNIC INST AND STATE UNIV	2,252	2,288	2,350	2,373	2,555
38	UNIVERSITY OF ILLINOIS AT CHICAGO	2,964	2,761	2,327	2,428	2,530
39	WEST VIRGINIA UNIVERSITY	1,959	2,128	2,142	2,456	2,486
40	UNIVERSITY OF CINCINNATI	2,247	2,381	2,420	2,422	2,468
	TOTAL, 1ST 40 INSTS.	135,482	139,126	142,029	143,431	147,557
41	UNIVERSITY OF CONNECTICUT	1,981	2,203	2,257	2,396	2,460
42	ARIZONA STATE UNIVERSITY	1,238	1,624	1,994	2,424	2,446
43	UNIVERSITY OF KANSAS	2,295	2,264	2,212	2,255	2,389
44	SYRACUSE UNIVERSITY	1,916	1,974	2,082	2,172	2,388
45	SUNY - BUFFALO	2,008	2,057	2,089	2,260	2,368
46	INDIANA UNIVERSITY	2,173	2,336	2,376	2,271	2,342
47	UNIVERSITY OF MASSACHUSETTS AT AMHERST	1,952	2,084	2,006	2,170	2,317
48	SUNY - STONY BROOK	2,272	2,317	2,413	2,261	2,297
49	UNIVERSITY OF OKLAHOMA	2,113	2,157	1,892	1,993	2,294
50	UNIVERSITY OF IOWA	2,015	2,090	1,877	2,031	2,226
	TOTAL, 1ST 50 INSTS.	156,045	160,232	163,227	165,664	171,104

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

—CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
51 WAYNE STATE UNIVERSITY	2,155	2,117	1,831	2,124	2,149
52 UNIVERSITY OF UTAH	1,953	1,915	1,917	1,942	2,052
53 GEORGIA INSTITUTE OF TECHNOLOGY	1,815	1,931	1,998	2,019	2,000
54 UNIVERSITY OF HAWAII AT MANOA	1,483	2,004	2,012	2,053	1,965
55 SAN DIEGO STATE UNIVERSITY	1,790	1,617	1,812	2,068	1,954
56 UNIVERSITY OF MISSOURI - COLUMBIA	1,956	1,895	1,954	2,060	1,949
57 TEXAS WOMAN'S UNIVERSITY	1,516	1,492	1,660	1,680	1,945
58 LONG ISLAND UNIVERSITY	1,962	2,290	2,130	2,096	1,945
59 UNIVERSITY OF WISCONSIN - MILWAUKEE	1,740	1,871	1,843	1,789	1,936
60 UNIV OF TEXAS AT ARLINGTON	1,673	1,670	1,723	1,862	1,897
TOTAL, 1ST 60 INSTS.	174,018	179,034	182,107	185,357	190,896
61 LOUISIANA STATE UNIVERSITY SYSTEM	1,515	1,582	1,638	1,823	1,852
62 RENSSELAER POLYTECHNIC INSTITUTE	1,462	1,548	1,643	1,695	1,825
63 UNIVERSITY OF SOUTH CAROLINA	1,772	1,702	1,774	1,814	1,814
64 COLORADO STATE UNIVERSITY	1,734	1,675	1,803	1,831	1,813
65 CUNY GRADUATE SCHOOL AND UNIV CENTER	1,715	1,733	1,812	1,830	1,803
66 ILLINOIS INSTITUTE OF TECHNOLOGY	1,474	1,629	1,758	1,737	1,784
67 CASE WESTERN RESERVE UNIVERSITY	1,590	1,661	1,676	1,736	1,778
68 CALIF STATE UNIV AT LONG BEACH	1,667	1,747	1,771	1,744	1,751
69 SAN JOSE STATE UNIVERSITY	1,768	1,800	2,045	2,022	1,742
70 UNIVERSITY OF GEORGIA	1,646	1,756	1,779	1,869	1,731
TOTAL, 1ST 70 INSTS.	190,361	195,867	199,806	203,458	208,789
71 NEW SCHOOL FOR SOCIAL RESEARCH	1,168	1,646	1,653	1,923	1,726
72 UNIVERSITY OF KENTUCKY	1,640	1,603	1,648	1,757	1,716
73 YALE UNIVERSITY	1,551	1,604	1,685	1,686	1,707
74 UNIVERSITY OF HOUSTON-UNIVERSITY PARK	1,535	1,414	1,410	1,482	1,701
75 PACE UNIVERSITY	493	540	1,301	1,058	1,666
76 OREGON STATE UNIVERSITY	1,739	1,768	1,652	1,622	1,657
77 NORTHWESTERN UNIVERSITY	1,446	1,515	1,536	1,590	1,635
78 FLORIDA STATE UNIVERSITY	1,646	1,514	1,516	1,650	1,598
79 CATHOLIC UNIVERSITY OF AMERICA	1,721	1,718	1,719	1,713	1,577
80 UNIVERSITY OF NEW MEXICO	1,289	1,415	1,432	1,442	1,540
TOTAL, 1ST 80 INSTS.	204,609	210,604	215,358	219,381	225,312
81 POLYTECHNIC INSTITUTE OF NEW YORK	2,151	2,134	2,304	1,345	1,540
82 UNIVERSITY OF VIRGINIA	1,450	1,495	1,479	1,529	1,539
83 OKLAHOMA STATE UNIVERSITY	1,354	1,381	1,301	1,443	1,479
84 TEMPLE UNIVERSITY	1,480	1,452	1,280	1,212	1,478
85 UNIVERSITY OF NEBRASKA - LINCOLN	1,297	1,270	1,365	1,403	1,462
86 AMERICAN UNIVERSITY	1,980	1,618	1,833	1,705	1,459
87 JOHNS HOPKINS UNIVERSITY	1,305	1,438	1,498	1,424	1,456
88 UNIVERSITY OF CHICAGO	1,425	1,425	1,427	1,420	1,444
89 UNIVERSITY OF LOWELL	825	937	1,124	1,278	1,408
90 COLUMBIA UNIVERSITY TEACHERS COLLEGE	1,257	1,271	1,733	1,690	1,400
TOTAL, 1ST 90 INSTS.	219,133	225,045	230,702	233,830	239,977
91 CUNY HUNTER COLLEGE	1,187	1,183	1,265	1,385	1,396
92 WESTERN MICHIGAN UNIVERSITY	1,349	1,363	1,365	1,491	1,381
93 WASHINGTON STATE UNIVERSITY	1,476	1,427	1,464	1,374	1,367
94 CALIF STATE UNIV AT FULLERTON	1,117	1,151	1,161	1,287	1,353
95 KANSAS STATE UNIV OF AGR & APPLIED SCI	1,207	1,323	1,249	1,266	1,331
96 VIRGINIA COMMONWEALTH UNIVERSITY	1,408	1,326	1,355	1,370	1,318
97 UNIVERSITY OF SANTA CLARA	838	873	957	1,165	1,310
98 STEVENS INSTITUTE OF TECHNOLOGY	1,041	1,274	1,433	1,222	1,300
99 FAIRLEIGH DICKINSON UNIVERSITY	1,395	1,296	1,265	1,285	1,275
100 NORTH TEXAS STATE UNIVERSITY	648	805	732	968	1,274
TOTAL, 1ST 100 INSTS.	230,759	237,065	242,938	246,643	253,282

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

—CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
101 SOUTHERN ILLINOIS UNIV AT CARBONDALE	1,005	1,062	1,044	1,127	1,269
102 US NAVAL POSTGRADUATE SCHOOL	831	805	859	952	1,266
103 UNIVERSITY OF CALIF AT SAN DIEGO	1,127	1,190	1,159	1,210	1,241
104 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	1,033	1,021	1,041	1,031	1,228
105 UNIVERSITY OF CALIF AT SANTA BARBARA	1,106	1,204	1,294	1,228	1,218
106 CALIF STATE UNIVERSITY AT SACRAMENTO	1,183	1,150	1,279	1,302	1,191
107 UNIVERSITY OF DELAWARE	1,031	1,084	1,125	1,173	1,180
108 UNIVERSITY OF CALIF AT IRVINE	1,013	1,057	1,142	1,163	1,178
109 CALIF STATE UNIVERSITY AT NORTHRIDGE	1,172	1,086	1,171	1,164	1,160
110 UNIVERSITY OF LOUISVILLE	925	968	1,061	1,070	1,149
TOTAL, 1ST 110 INSTS.	241,185	247,602	254,123	258,063	265,362
111 CALIF STATE UNIV AT LOS ANGELES	1,366	1,451	1,344	1,096	1,149
112 CARNEGIE-MELLON UNIVERSITY	921	1,012	1,093	1,081	1,144
113 UNIVERSITY OF AKRON	985	969	978	1,061	1,132
114 SUNY - BINGHAMTON	887	969	1,078	1,090	1,126
115 VILLANOVA UNIVERSITY	680	911	1,075	1,019	1,121
116 PRINCETON UNIVERSITY	1,035	1,072	1,099	1,131	1,123
117 CLEMSON UNIVERSITY	395	542	947	1,037	1,119
118 UNIVERSITY OF RHODE ISLAND	1,127	1,028	1,049	993	1,102
119 DREXEL UNIVERSITY	861	1,024	1,051	1,056	1,102
120 UNIVERSITY OF ROCHESTER	950	1,020	1,017	992	1,098
TOTAL, 1ST 120 INSTS.	250,892	258,000	265,074	268,619	276,580
121 WASHINGTON UNIVERSITY	1,317	1,382	1,339	1,301	1,095
122 TEXAS TECH UNIVERSITY	930	950	998	1,001	1,089
123 UNIVERSITY OF SOUTH FLORIDA	859	893	887	995	1,087
124 UNIVERSITY OF MIAMI	802	846	906	961	1,076
125 UNIVERSITY OF MISSOURI - ROLLA	713	796	849	995	1,068
126 UTAH STATE UNIVERSITY	803	987	945	1,070	1,065
127 UNIVERSITY OF DENVER	952	1,058	942	960	1,041
128 ADELPHI UNIVERSITY	760	724	791	897	1,018
129 THE HARTFORD GRADUATE CENTER	663	723	723	867	1,017
130 DE PAUL UNIVERSITY	589	687	1,087	957	1,005
TOTAL, 1ST 130 INSTS.	259,280	267,066	274,521	278,583	287,141
131 UNIVERSITY OF ARKANSAS	912	882	974	1,035	997
132 OLD DOMINION UNIVERSITY	664	932	898	913	991
133 GEORGETOWN UNIVERSITY	1,032	1,000	1,098	998	990
134 AUBURN UNIVERSITY	1,045	1,007	934	922	984
135 MISSISSIPPI STATE UNIVERSITY	765	776	797	844	973
136 TULANE UNIVERSITY OF LOUISIANA	978	923	962	840	968
137 ANTIOCH UNIVERSITY	511	775	810	876	965
138 CLEVELAND STATE UNIVERSITY	892	857	854	830	964
139 LEHIGH UNIVERSITY	658	777	791	863	943
140 DUKE UNIVERSITY	984	959	934	950	[illegible]
TOTAL, 1ST 140 INSTS.	267,721	275,854	283,573	287,654	296,897
141 CALIFORNIA INSTITUTE OF TECHNOLOGY	878	862	897	935	946
142 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	1,017	968	752	1,035	943
143 NEW JERSEY INSTITUTE OF TECHNOLOGY	817	828	830	849	940
144 WORCESTER POLYTECHNIC INSTITUTE	723	694	790	884	932
145 CUNY CITY COLLEGE	448	484	536	868	928
146 BRIGHAM YOUNG UNIVERSITY	910	980	895	1,009	920
147 NEW YORK INSTITUTE OF TECHNOLOGY	525	644	804	759	920
148 GEORGIA STATE UNIVERSITY	730	765	788	818	909
149 NORTHERN ILLINOIS UNIVERSITY	1,042	1,096	915	883	906
150 SOUTHERN METHODIST UNIVERSITY	837	998	857	817	892
TOTAL, 1ST 150 INSTS.	275,648	284,193	291,997	296,521	306,133

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

—CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
151 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	1,057	989	1,106	981	878
152 UNIVERSITY OF CALIF AT SAN FRANCISCO	830	794	857	931	876
153 LOYOLA UNIVERSITY OF CHICAGO	808	893	851	874	872
154 ROCHESTER INSTITUTE OF TECHNOLOGY	461	449	629	658	869
155 OHIO UNIVERSITY	703	826	805	906	864
156 SAN FRANCISCO STATE UNIVERSITY	1,149	1,129	1,258	907	838
157 SUNY - ALBANY	701	713	756	907	843
158 UNIV OF TEXAS AT DALLAS	601	758	772	788	842
159 UNIVERSITY OF WYOMING	651	660	730	802	835
160 HOWARD UNIVERSITY	1,016	1,016	1,201	925	831
TOTAL, 1ST 160 INSTS.	283,627	292,420	300,562	305,210	314,701
161 MEMPHIS STATE UNIVERSITY	853	823	799	792	829
162 UNIVERSITY OF CALIF AT RIVERSIDE	967	921	931	927	817
163 UNIVERSITY OF CENTRAL FLORIDA	430	348	494	710	814
164 ST LOUIS UNIVERSITY	793	829	740	765	804
165 NEW MEXICO STATE UNIVERSITY	657	690	714	746	802
166 JOHN F KENNEDY UNIVERSITY	362	433	498	753	796
167 KENT STATE UNIVERSITY	834	747	727	718	794
168 CUNY BERNARD BARUCH COLLEGE	370	378	596	671	788
169 THE UNIVERSITY OF ALABAMA	790	745	618	743	782
170 UNIVERSITY OF OREGON	743	686	679	709	779
TOTAL, 1ST 170 INSTS.	290,426	298,980	307,358	312,744	322,706
171 WICHITA STATE UNIVERSITY	770	769	773	695	774
172 UNIVERSITY OF IDAHO	736	767	708	703	771
173 UNIVERSITY OF MARYLAND - BALT PROF SCH	1,345	724	698	718	761
174 ST JOHN'S UNIVERSITY	833	783	887	715	753
175 BROWN UNIVERSITY	628	671	689	746	749
176 PORTLAND STATE UNIVERSITY	703	665	699	717	733
177 SANGAMON STATE UNIVERSITY	706	751	751	702	709
178 VANDERBILT UNIVERSITY	684	635	666	625	697
179 RICE UNIVERSITY	564	532	586	677	689
180 WRIGHT STATE UNIVERSITY	543	489	595	626	677
TOTAL, 1ST 180 INSTS.	297,938	305,766	314,370	319,648	330,019
181 LOYOLA COLLEGE	442	443	545	649	676
182 UNIVERSITY OF NOTRE DAME	568	591	605	611	663
183 UNIVERSITY OF TOLEDO	489	617	602	623	658
184 UNIVERSITY OF SOUTHWESTERN LOUISIANA	359	465	519	557	656
185 LOMA LINDA UNIVERSITY	659	979	1,025	947	649
186 UNIVERSITY OF NEBRASKA - OMAHA	520	525	645	573	645
187 EAST TEXAS STATE UNIVERSITY	653	667	397	487	645
188 UNIV OF TEXAS AT EL PASO	576	462	507	630	644
189 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	785	792	771	685	644
190 CALIF STATE UNIVERSITY AT FRESNO	559	540	634	653	643
TOTAL, 1ST 190 INSTS.	303,548	311,847	320,640	326,083	336,542
191 NORTHERN ARIZONA UNIVERSITY	350	395	430	814	643
192 MARQUETTE UNIVERSITY	606	593	525	575	639
193 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	506	527	545	635	634
194 VERMONT STATE UNIVERSITY	392	406	383	581	632
195 NORTH DAKOTA STATE UNIVERSITY	511	611	581	587	629
196 UNIVERSITY OF MISSOURI - KANSAS CITY	611	716	650	633	625
197 CALIF STATE UNIV AT DOMINGUEZ HILLS	546	532	679	432	616
198 RUSSELL SAGE COLLEGE	429	491	450	521	610
199 US INTERNATIONAL UNIVERSITY	949	1,080	774	615	610
200 MONTCLAIR STATE COLLEGE	696	297	349	567	604
TOTAL, 1ST 200 INSTS.	309,144	317,495	326,026	332,044	342,784

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

-CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
201 UNIVERSITY OF NEW HAVEN	452	436	492	632	602
202 CALIF STATE UNIV AT HAYWARD	524	455	503	547	600
203 AIR FORCE INSTITUTE OF TECHNOLOGY	400	465	422	481	583
204 COLORADO SCHOOL OF MINES	482	502	525	559	582
205 FORDHAM UNIVERSITY	507	662	626	590	579
206 TUFTS UNIVERSITY	503	502	504	559	571
207 BALL STATE UNIVERSITY	522	451	531	566	570
208 EASTERN MICHIGAN UNIVERSITY	380	456	462	460	570
209 ROOSEVELT UNIVERSITY	667	572	592	444	566
210 FLORIDA ATLANTIC UNIVERSITY	430	431	348	392	555
TOTAL, 1ST 210 INSTS.	314,011	322,427	331,031	337,274	348,562
211 CALIF STATE POLYTECHNIC UNIV AT POMONA	440	440	461	483	551
212 UNIVERSITY OF SOUTHERN MISSISSIPPI	563	521	480	510	550
213 UNIVERSITY OF BRIDGEPORT	565	521	406	574	547
214 UNIVERSITY OF DAYTON	520	603	665	622	543
215 UNIVERSITY OF DETROIT	554	513	390	476	541
216 UNIVERSITY OF MISSISSIPPI	567	596	564	599	540
217 YESHIVA UNIVERSITY	360	385	497	527	538
218 MIAMI UNIVERSITY	484	518	532	528	536
219 SOUTHWEST TEXAS STATE UNIVERSITY	502	386	361	426	532
220 UNIVERSITY OF NEVADA AT RENO	477	450	464	413	532
TOTAL, 1ST 220 INSTS.	319,043	327,360	335,851	342,432	353,972
221 WEST VIRGINIA COLLEGE OF GRAD STUDIES	120	334	544	528	531
222 ATLANTA UNIVERSITY	517	587	561	556	531
223 EMORY UNIVERSITY	498	449	497	483	513
224 UNIV OF NORTH CAROLINA AT GREENSBORO	503	510	504	506	511
225 UNIVERSITY OF MAINE AT ORONO	475	467	395	416	509
226 UNIVERSITY OF NEW ORLEANS	418	444	474	558	508
227 MONTANA STATE UNIVERSITY	373	415	422	498	508
228 UNIVERSITY OF NEW HAMPSHIRE	489	514	506	501	508
229 GEORGE MASON UNIVERSITY	409	546	528	599	502
230 MARYWOOD COLLEGE	650	706	706	694	500
TOTAL, 1ST 230 INSTS.	323,495	332,332	340,988	347,771	359,093
231 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	451	451	456	460	493
232 UNIVERSITY OF MONTANA	382	415	388	478	492
233 IONA COLLEGE	158	112	171	330	490
234 BOSTON COLLEGE	509	561	475	411	481
235 BOWLING GREEN STATE UNIVERSITY	577	496	472	449	475
236 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	260	295	296	369	471
237 ILLINOIS STATE UNIVERSITY	410	410	403	407	466
238 GEORGE WILLIAMS COLLEGE	391	428	477	558	464
239 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	737	609	509	476	450
240 CENTRAL MICHIGAN UNIVERSITY	448	447	497	449	449
TOTAL, 1ST 240 INSTS.	327,818	336,554	345,132	352,158	363,824
241 UNIVERSITY OF SAN FRANCISCO	24	131	473	441	448
242 SAM HOUSTON STATE UNIVERSITY	305	246	278	423	445
243 EAST CAROLINA UNIVERSITY	466	380	327	413	443
244 NOVA UNIVERSITY	791	799	805	716	436
245 SUNY - COLL OF ENV SCIENCE AND FORESTRY	380	403	414	417	431
246 UNIVERSITY OF ALASKA AT FAIRBANKS	270	272	320	355	424
247 OAKLAND UNIVERSITY	309	324	315	305	402
248 SOUTH DAKOTA STATE UNIVERSITY	280	324	315	372	397
249 TOWSON STATE UNIVERSITY	358	380	364	348	396
250 CUNY BROOKLYN COLLEGE	122	116	236	288	393
TOTAL, 1ST 250 INSTS.	331,123	339,931	348,979	356,236	368,039

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

—CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
251 TENNESSEE STATE UNIVERSITY	240	206	198	196	388
252 HOFSTRA UNIVERSITY	437	437	396	405	386
253 CUNY QUEENS COLLEGE	179	232	313	357	383
254 THE FIELDING INSTITUTE	268	396	377	377	380
255 UNIVERSITY OF CALIF AT SANTA CRUZ	301	327	363	369	375
256 PEPPERDINE UNIVERSITY	542	457	396	382	375
257 SETON HALL UNIVERSITY	275	275	284	396	366
258 UNIVERSITY OF NORTH DAKOTA	265	296	332	359	365
259 SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	389	407	379	364	365
260 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	268	279	323	323	358
TOTAL, 1ST 260 INSTS.	334,287	343,243	352,342	359,764	371,780
261 CARIBBEAN CTR FOR ADV STD	0	348	368	392	358
262 MANHATTAN COLLEGE	296	339	361	338	354
263 SEATTLE UNIVERSITY	254	236	252	343	349
264 EASTERN WASHINGTON UNIVERSITY	300	280	260	299	348
265 UNIVERSITY OF WISCONSIN - STOUT	0	95	93	362	347
266 MICHIGAN TECHNOLOGICAL UNIVERSITY	241	255	282	310	342
267 LOYOLA MARYMOUNT UNIVERSITY	335	357	421	369	335
268 NATIONAL UNIVERSITY	299	384	310	296	335
269 MOUD COLLEGE	333	371	417	331	335
270 UNION OF EXPERIMENTNG COLLEGES & UNIVS	357	353	345	332	333
TOTAL, 1ST 270 INSTS.	336,702	346,265	355,452	363,136	375,216
271 UNIVERSITY OF WEST FLORIDA	283	313	301	277	322
272 CALIF SCH OF PROF PSYCH - SAN DIEGO	234	255	288	321	322
273 WESTERN ILLINOIS UNIVERSITY	275	264	258	320	320
274 BRANDEIS UNIVERSITY	325	308	317	325	318
275 ST MARY'S COLLEGE	60	125	77	154	316
276 DUQUESNE UNIVERSITY	282	262	263	279	314
277 UNIVERSITY OF PUERTO RICO	240	253	265	301	310
278 WEST TEXAS STATE UNIVERSITY	257	246	249	264	307
279 WEST CHESTER UNIVERSITY OF PENNSYLVANIA	240	199	470	298	306
280 WEST COAST UNIVERSITY	386	202	240	243	306
TOTAL, 1ST 280 INSTS.	339,284	348,691	358,180	365,918	378,357
281 TRINITY UNIVERSITY	389	300	291	289	305
282 ANNA MARIA COLLEGE	151	326	230	303	303
283 CORPUS CHRISTI STATE UNIVERSITY	102	124	157	174	303
284 CLARKSON UNIVERSITY	238	246	279	299	303
285 CALIF SCH OF PROF PSYCH - BERKELEY	235	247	244	235	300
286 UNIVERSITY OF MISSOURI - ST LOUIS	309	345	281	277	300
287 MANKATO STATE UNIVERSITY	456	338	317	315	294
288 DARTMOUTH COLLEGE	212	238	227	281	292
289 INDIANA STATE UNIVERSITY	311	267	265	279	290
290 LAMAR UNIVERSITY	179	190	191	296	289
TOTAL, 1ST 290 INSTS.	341,866	351,332	360,722	368,666	381,236
291 CALIF STATE UNIVERSITY AT CHICO	391	288	253	248	288
292 COLLEGE OF WILLIAM AND MARY	291	282	333	287	285
293 SUNY COLLEGE AT OSWEGO	34	16	17	174	272
294 STEPHEN F. AUSTIN STATE UNIVERSITY	262	318	259	261	268
295 UNIVERSITY OF ARKANSAS AT LITTLE ROCK	299	298	285	281	268
296 CALIF SCH OF PROF PSYCH - LOS ANGELES	293	308	326	280	264
297 NEW YORK MEDICAL COLLEGE	134	121	169	185	264
298 HAHNEMANN UNIVERSITY	301	206	233	244	257
299 UNIVERSITY OF TULSA	214	291	254	254	257
300 MIDDLE TENNESSEE STATE UNIVERSITY	296	342	292	242	256
TOTAL, 1ST 300 INSTS.	344,381	353,802	363,143	371,124	384,017

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

—CONTINUED

INSTITUTIONAL RANKING		1979	1980	1981	1982	1983
301	JACKSON STATE UNIVERSITY	209	192	189	202	253
302	UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	219	244	258	241	251
303	ALABAMA A & M UNIVERSITY	155	207	189	237	251
304	CALIF POLY STATE UNIV AT SAN LUIS OBISPO	239	214	236	197	250
305	UNIV OF TEXAS HLTH SCI CTR AT DALLAS	241	241	240	221	249
306	SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	99	112	158	248	248
307	UNIVERSITY OF LA VERNE	147	114	175	41	248
308	UNIV OF NORTH CAROLINA AT CHARLOTTE	78	145	143	206	245
309	BISCAYNE COLLEGE	255	289	242	242	245
310	UNIVERSITY OF NEBRASKA MEDICAL CENTER	254	255	265	241	244
	TOTAL, 1ST 310 INSTS.	346,277	355,815	365,238	373,200	386,501
311	NORTHWESTERN STATE UNIV OF LOUISIANA	93	95	209	221	242
312	ARKANSAS STATE UNIVERSITY	102	88	98	150	240
313	ST MARY'S UNIVERSITY OF SAN ANTONIO	191	233	241	234	240
314	NORTHEASTERN ILLINOIS UNIVERSITY	233	220	204	217	239
315	SOUTHERN CONNECTICUT STATE UNIVERSITY	170	331	289	296	238
316	UNIVERSITY OF BALTIMORE	369	389	318	274	238
317	BAYLOR UNIVERSITY	233	212	199	249	237
318	BARRY UNIVERSITY	299	269	268	216	235
319	IDAHO STATE UNIVERSITY	215	201	205	234	233
320	NORTH CAROLINA A & T STATE UNIVERSITY	44	141	123	152	232
	TOTAL, 1ST 320 INSTS.	348,226	357,994	367,392	375,443	388,875
321	EMPORIA STATE UNIVERSITY - KANSAS	260	277	260	221	231
322	UNIVERSITY OF HARTFORD	406	406	241	230	230
323	UNIVERSITY OF WISCONSIN - OSHKOSH	123	230	261	228	229
324	CLAREMONT UNIV CENTER & GRADUATE SCHOOL	280	282	276	236	229
325	UNIVERSITY OF SOUTH ALABAMA	142	158	162	190	229
326	UNIV OF MED AND DENT OF NEW JERSEY	143	177	172	211	228
327	EAST TENNESSEE STATE UNIVERSITY	244	212	212	226	224
328	SOUTH DAKOTA SCHOOL OF MINES AND TECH	172	191	193	200	223
329	WESTERN KENTUCKY UNIVERSITY	204	192	192	190	218
330	AMERICAN INTERNATIONAL COLLEGE	193	149	157	167	217
	TOTAL, 1ST 330 INSTS.	350,393	360,268	369,518	377,542	391,133
331	PITTSBURG STATE UNIVERSITY	173	230	264	194	215
332	QUINNIPIAC COLLEGE	134	170	155	205	214
333	WESTERN WASHINGTON UNIVERSITY	239	221	220	206	214
334	LOUISIANA TECH UNIVERSITY	131	165	154	169	213
335	RHODE ISLAND COLLEGE	112	123	129	182	212
336	NEW MEXICO INSTITUTE OF MINING AND TECH	140	138	150	184	209
337	FORT HAYS STATE UNIVERSITY	149	158	156	164	200
338	CLARK UNIVERSITY	222	183	190	191	198
339	TEXAS A & I UNIVERSITY	118	212	192	174	197
340	THE WRIGHT INSTITUTE	170	204	202	195	195
	TOTAL, 1ST 340 INSTS.	351,981	362,072	371,330	379,406	393,200
341	SMITH COLLEGE	189	198	191	211	19[illegible]
342	COLLEGE OF NEW ROCHELLE	27	159	164	142	[illegible]
343	UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	153	178	190	189	[illegible]92
344	CALIF STATE COLLEGE OF STANISLAUS	185	191	177	205	192
345	UNIVERSITY OF NEVADA AT LAS VEGAS	209	189	214	187	190
346	BIOLA UNIVERSITY	178	185	181	182	188
347	BRYN MAWR COLLEGE	176	179	190	173	178
348	ALFRED UNIVERSITY	53	73	76	178	178
349	PACIFIC GRAD SCHOOL OF PROF PSYCH	0	0	0	0	178
350	CALIF SCH OF PROF PSYCH - FRESNO	163	195	193	186	177
	TOTAL, 1ST 350 INSTS.	353,314	363,619	372,906	381,059	395,061

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

—CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
351 WAKE FOREST UNIVERSITY	148	168	174	167	176
352 CHAPMAN COLLEGE	331	331	161	181	175
353 TENNESSEE TECHNOLOGICAL UNIVERSITY	150	181	176	175	174
354 APPALACHIAN STATE UNIVERSITY	178	206	157	164	174
355 TEXAS SOUTHERN UNIVERSITY	157	169	172	167	174
356 NORTHEAST LOUISIANA UNIVERSITY	117	117	115	137	174
357 UNIV OF TEXAS MED BRANCH AT GALVESTON	140	159	135	157	173
358 SONOMA STATE UNIVERSITY	280	93	91	85	173
359 UNIVERSITY OF SCRANTON	159	174	167	167	173
360 FULLER THEOLOGICAL SEMINARY	160	165	180	175	172
TOTAL, 1ST 360 INSTS.	355,134	365,382	374,434	382,634	396,799
361 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	222	188	192	179	171
362 UNIVERSITY OF SOUTH DAKOTA	162	186	164	160	169
363 UNIVERSITY OF ALASKA AT ANCHORAGE	144	164	164	161	168
364 CENTRAL MISSOURI STATE UNIVERSITY	192	253	136	200	165
365 MEDICAL COLLEGE OF GEORGIA	94	184	143	168	165
366 INDIANA UNIVERSITY OF PENNSYLVANIA	244	142	142	149	163
367 SUFFOLK UNIVERSITY	215	216	203	192	163
368 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	117	114	114	113	159
369 UNIVERSITY OF EVANSVILLE	119	117	98	147	159
370 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	138	115	112	160	159
TOTAL, 1ST 370 INSTS.	356,781	367,061	375,902	384,263	398,440
371 YOUNGSTOWN STATE UNIVERSITY	161	141	137	123	158
372 EASTERN KENTUCKY UNIVERSITY	188	164	156	147	157
373 UNIVERSITY OF TEXAS AT TYLER	117	117	139	154	157
374 UNIVERSITY OF TEXAS AT SAN ANTONIO	291	251	271	144	156
375 BRADLEY UNIVERSITY	68	86	60	139	154
376 EDINBORO UNIVERSITY OF PENNSYLVANIA	167	133	149	157	154
377 MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	145	117	127	148	153
378 MARSHALL UNIVERSITY	277	247	265	261	151
379 ST JOSEPH COLLEGE	136	51	54	97	150
380 XAVIER UNIVERSITY	144	153	165	155	150
TOTAL, 1ST 380 INSTS.	358,475	368,521	377,425	385,788	399,980
381 WESTERN NEW ENGLAND COL	52	55	132	145	147
382 BAYLOR COLLEGE OF MEDICINE	117	113	127	142	146
383 CENTRAL CONNECTICUT STATE UNIVERSITY	132	143	157	134	146
384 EASTERN ILLINOIS UNIVERSITY	175	199	176	123	146
385 EASTERN NEW MEXICO UNIVERSITY	210	167	235	180	145
386 MIDWESTERN STATE UNIVERSITY	99	61	88	146	143
387 UNION COLLEGE(NY)	127	115	123	123	142
388 WAGNER COLLEGE	128	133	158	159	142
389 PACIFIC LUTHERAN UNIVERSITY	214	113	111	154	140
390 GOLDEN GATE UNIVERSITY	339	341	331	332	139
TOTAL, 1ST 390 INSTS.	360,028	369,961	379,063	387,426	401,416
391 UNIVERSITY OF WISCONSIN - STEVENS POINT	100	151	128	141	138
392 WORCESTER STATE COLLEGE	44	149	147	130	138
393 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	105	91	90	132	137
394 ASSUMPTION COLLEGE	223	243	188	152	134
395 MONMOUTH COLLEGE(NJ)	50	96	114	120	133
396 WILLIAM PATERSON COLLEGE	160	150	196	149	133
397 UNIVERSITY OF CENTRAL ARKANSAS	13	43	95	106	130
398 UNIVERSITY OF THE DISTRICT OF COLUMBIA	82	82	94	123	130
399 SUNY COLLEGE AT NEW PALTZ	54	110	114	123	129
400 AMERICAN TECHNOLOGICAL UNIVERSITY	116	48	108	80	128
TOTAL, 1ST 400 INSTS.	360,975	371,124	380,337	388,682	402,746

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TABLE E-11. -- INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

-CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
401 SUNY COLLEGE AT BROCKPORT	88	98	141	114	128
402 WESTERN CAROLINA UNIVERSITY	58	84	125	127	121
403 SPALDING UNIVERSITY	118	118	135	110	120
404 WESTERN OREGON STATE COLLEGE	95	99	117	71	119
405 CALIF STATE COLLEGE AT SAN BERNARDINO	88	160	95	92	118
406 TUSKEGEE INSTITUTE	82	80	91	144	118
407 COLLEGE OF ST ROSE	204	184	183	183	116
408 MURRAY STATE UNIVERSITY	112	95	108	101	116
409 PRAIRIE VIEW A & M UNIVERSITY	84	82	92	154	116
410 RUSH UNIVERSITY	193	284	330	97	115
TOTAL, 1ST 410 INSTS.	362,057	372,368	381,754	389,875	403,933
411 SOUTHWEST MISSOURI STATE UNIVERSITY	63	61	84	91	113
412 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	112	113	121	113	110
413 CHICAGO SCHOOL OF PROF PSYCH	0	0	0	0	110
414 TROY STATE UNIVERSITY AT MONTGOMERY	104	62	98	95	110
415 HAMPTON INSTITUTE	80	81	73	102	110
416 JAMES MADISON UNIVERSITY	168	167	154	123	110
417 KEAN COLLEGE OF NEW JERSEY	112	104	112	105	108
418 MCNEESE STATE UNIVERSITY	77	79	101	122	108
419 UNIVERSITY OF MASSACHUSETTS-BOSTON	35	45	42	48	108
420 NORTHEAST MISSOURI STATE UNIVERSITY	65	62	63	97	107
TOTAL, 1ST 420 INSTS.	362,873	373,142	382,602	390,761	405,027
421 ROCKEFELLER UNIVERSITY	106	112	107	105	106
422 WIDENER UNIVERSITY	102	74	82	90	105
423 WESLEYAN UNIVERSITY	94	95	111	100	104
424 AZUSA PACIFIC UNIVERSITY	277	279	242	108	104
425 UNIVERSITY OF PORTLAND	46	73	123	123	103
426 JACKSONVILLE STATE UNIVERSITY	64	63	64	63	102
427 TEXAS CHRISTIAN UNIVERSITY	146	189	183	136	102
428 THE MEDICAL COLLEGE OF PENNSYLVANIA	70	61	49	95	101
429 WOODS HOLE OCEANOGRAPHIC INSTITUTION	51	95	91	98	100
430 INSTITUTE OF PAPER CHEMISTRY	91	90	101	99	100
TOTAL, 1ST 430 INSTS.	363,922	374,273	383,755	391,780	406,054
431 TRENTON STATE COLLEGE	116	114	107	92	99
432 VALDOSTA STATE COLLEGE	87	96	87	132	98
433 DRAKE UNIVERSITY	132	136	130	100	97
434 GANNON UNIVERSITY	81	48	86	91	96
435 NORTHWEST MISSOURI STATE UNIVERSITY	83	80	84	83	94
436 UNIVERSITY OF HEALTH SCIENCES	104	111	82	81	94
437 UNIVERSITY OF WISCONSIN - LA CROSSE	75	65	84	81	93
438 HUMBOLDT STATE UNIVERSITY	116	141	128	104	92
439 NORTHERN MICHIGAN UNIVERSITY	63	128	142	82	90
440 UNIVERSITY OF SAN DIEGO	54	85	99	96	90
TOTAL, 1ST 440 INSTS.	364,833	375,277	384,784	392,722	406,997
441 OREGON GRADUATE CENTER	51	47	58	74	89
442 UNIVERSITY OF WISCONSIN - EAU CLAIRE	78	80	82	72	87
443 BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	19	14	17	15	86
444 ANDREWS UNIVERSITY	28	24	102	93	86
445 WASHINGTON COLLEGE	75	76	82	82	85
446 MEDICAL UNIVERSITY OF SOUTH CAROLINA	113	116	105	93	84
447 CENTRAL WASHINGTON UNIVERSITY	90	77	81	83	84
448 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	31	44	45	44	84
449 BUTLER UNIVERSITY	81	97	77	77	83
450 WEST GEORGIA COLLEGE	148	73	81	79	81
TOTAL, 1ST 450 INSTS.	365,547	375,925	385,514	393,434	407,846

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

-CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
451 MONTEREY INST OF INTL STUDIES	54	54	51	76	81
452 SUNY - DOWNSTATE MEDICAL CENTER	74	83	80	80	79
453 MILWAUKEE SCHOOL OF ENGINEERING	71	76	69	77	79
454 UNIVERSITY OF NORTHERN COLORADO	121	101	98	72	79
455 INDIANA CENTRAL UNIVERSITY	6	8	64	70	78
456 UNIVERSITY OF THE PACIFIC	77	68	74	75	77
457 RADFORD UNIVERSITY	137	113	116	68	77
458 MOREHEAD STATE UNIVERSITY	66	72	69	75	76
459 NORTHROP UNIVERSITY	33	36	40	42	76
460 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	31	41	44	59	75
TOTAL, 1ST 460 INSTS.	366,217	376,577	386,221	394,128	408,623
461 UNIVERSITY OF NORTHERN IOWA	83	66	76	70	75
462 NORTH CAROLINA CENTRAL UNIVERSITY	78	74	93	94	74
463 SUL ROSS STATE UNIVERSITY	65	76	60	73	74
464 PRATT INSTITUTE	49	54	63	63	74
465 NEW MEXICO HIGHLANDS UNIVERSITY	91	78	77	72	73
466 JACKSONVILLE UNIVERSITY	22	29	29	12	72
467 SOUTHERN UNIVERSITY A & M COLLEGE	72	63	74	71	70
468 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	84	82	71	77	69
469 ANGELO STATE UNIVERSITY	63	72	71	68	69
470 SUNY COLLEGE AT GENESEO	92	79	74	73	68
TOTAL, 1ST 470 INSTS.	366,916	377,250	386,909	394,801	409,341
471 UNIVERSITY OF WISCONSIN - GREEN BAY	82	97	80	65	68
472 COLLEGE OF CHARLESTON	67	58	59	87	67
473 MEDICAL COLLEGE OF WISCONSIN	86	73	66	67	67
474 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	117	71	71	67	65
475 ALBANY MEDICAL COLLEGE	55	64	51	59	64
476 EASTERN VIRGINIA MEDICAL SCHOOL	25	44	51	62	63
477 RIVIER COLLEGE	43	67	38	57	63
478 VIRGINIA STATE UNIVERSITY	85	69	65	43	62
479 SUNY COLLEGE AT PLATTSBURGH	48	42	44	51	62
480 WHITWORTH COLLEGE	0	31	61	56	62
TOTAL, 1ST 480 INSTS.	367,324	377,866	387,495	395,415	409,984
481 MORGAN STATE UNIVERSITY	54	41	61	54	62
482 CALIFORNIA UNIVERSITY OF PENNSYLVANIA	68	94	13	59	60
483 SUNY LEHMAN COLLEGE	42	59	42	40	60
484 RAND GRADUATE INSTITUTE POLICY STUDIES	43	47	51	54	60
485 COOPER UNION	17	26	39	43	59
486 THOMAS JEFFERSON UNIVERSITY	77	92	67	73	59
487 MOORHEAD STATE UNIVERSITY	42	41	52	57	58
488 FROSTBURG STATE COLLEGE	86	78	82	79	58
489 FLORIDA A & M UNIVERSITY	55	59	60	55	58
490 MASS COLLEGE OF PHARMACY/ALLIED HEALTH	94	62	62	57	56
TOTAL, 1ST 490 INSTS.	368,102	378,465	388,024	395,986	410,574
491 WINTHROP COLLEGE	41	29	31	31	55
492 TARLETON STATE UNIVERSITY	75	62	67	66	54
493 GEORGIA SOUTHERN COLLEGE	62	65	73	63	54
494 SUNY COLLEGE AT BUFFALO	41	43	62	56	53
495 MARIST COLLEGE	41	60	55	50	53
496 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	12	19	23	34	52
497 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	0	10	21	52	50
498 KUTZTOWN UNIVERSITY OF PENNSYLVANIA	59	49	49	49	50
499 JOHN CARROLL UNIVERSITY	43	51	35	60	50
500 AUSTIN PEAY STATE UNIVERSITY	67	64	63	56	49
TOTAL, 1ST 500 INSTS.	368,547	378,917	388,503	396,503	411,095

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

-CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
501 SARAH LAWRENCE COLLEGE	48	52	50	50	49
502 FRAMINGHAM STATE COLLEGE	215	155	192	56	49
503 PHILADELPHIA COLL OF PHARMACY AND SCI	44	40	42	42	47
504 OREGON HEALTH SCIENCES UNIVERSITY	63	50	53	53	47
505 UNIVERSITY OF WISCONSIN - PLATTEVILLE	29	39	51	58	46
506 BAYLOR COLLEGE OF DENTISTRY	3	3	3	0	46
507 CREIGHTON UNIVERSITY	40	68	51	67	46
508 MEDICAL COLLEGE OF OHIO AT TOLEDO	28	43	41	40	46
509 CLARION UNIVERSITY OF PENNSYLVANIA	34	52	56	88	45
510 TRINITY COLLEGE	57	55	35	40	45
TOTAL, 1ST 510 INSTS.	369,108	379,474	389,077	396,997	411,561
511 SUNY - UPSTATE MEDICAL CENTER	54	62	52	48	45
512 UNIVERSITY OF ALASKA SOUTHEAST	42	5	57	48	45
513 ST JOSEPH'S UNIVERSITY	58	44	31	44	44
514 SAINT FRANCIS COLLEGE	51	50	33	39	43
515 SUNY COLLEGE AT FREDONIA	58	40	35	24	43
516 UNIVERSITY OF REDLANDS	56	56	41	42	43
517 EMERSON COLLEGE	31	33	28	43	42
518 DOMINICAN COLLEGE OF SAN RAFAEL	46	50	42	48	41
519 UNIVERSITY OF WISCONSIN - WHITEWATER	17	17	43	42	39
520 CHICAGO STATE UNIVERSITY	46	50	52	44	39
TOTAL, 1ST 520 INSTS.	369,567	379,932	389,491	397,419	411,984
521 SOUTHERN OREGON STATE COLLEGE	27	34	39	38	39
522 GODDARD COLLEGE	548	548	4	4	38
523 GEORGIA COLLEGE	154	157	152	145	37
524 CALIFORNIA LUTHERAN COLLEGE	60	60	26	26	37
525 EAST STROUDSBURG UNIV OF PENNSYLVANIA	28	25	24	24	37
526 ORAL ROBERTS UNIVERSITY	34	26	28	29	36
527 MEHARRY MEDICAL COLLEGE	45	39	34	34	36
528 UNIVERSITY OF RICHMOND	27	35	38	36	35
529 UNIVERSITY OF GL[illegible]	38	48	33	35	35
530 ABILENE CHRISTIAN UNIVERSITY	48	32	36	35	34
TOTAL, 1ST 530 INSTS.	370,596	380,956	389,905	397,825	412,348
531 MISSISSIPPI UNIVERSITY FOR WOMEN	52	25	22	24	34
532 ITHACA COLLEGE	53	41	43	43	34
533 NE OHIO UNIV MED SCHOOL	9	17	21	21	34
534 BUCKNELL UNIVERSITY	24	16	17	32	33
535 VALPARAISO UNIVERSITY	119	113	120	28	33
536 WASHBURN UNIVERSITY OF TOPEKA	0	17	16	16	33
537 UNIVERSITY OF NORTH CAROLINA/WILMINGTON	0	0	0	0	31
538 ST CLOUD STATE UNIVERSITY	32	28	27	14	30
539 SOUTHEAST MISSOURI STATE UNIVERSITY	0	23	22	28	30
540 CITADEL MILITARY COLL OF SOUTH CAROLINA	38	34	51	49	29
TOTAL, 1ST 540 INSTS.	371,923	381,270	390,244	398,080	412,669
541 CONNECTICUT COLLEGE	27	26	27	26	28
542 PACIFIC STATES UNIVERSITY	25	25	28	28	28
543 PAN AMERICAN UNIVERSITY	44	57	30	28	28
544 FLORIDA INTERNATIONAL UNIVERSITY	45	60	22	21	27
545 COPPIN STATE COLLEGE	255	54	53	27	25
546 AUGUSTA COLLEGE	31	24	29	23	25
547 LORAS COLLEGE	11	19	21	23	25
548 FISK UNIVERSITY	38	36	37	28	25
549 NICHOLLS STATE UNIVERSITY	10	4	13	30	25
550 UNIVERSITY OF PUGET SOUND	27	15	17	20	23
TOTAL, 1ST 550 INSTS.	371,438	381,590	390,521	398,334	412,928

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

—CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
551 SUNY COLLEGE AT POTSDAM	20	10	20	25	23
552 ROSE-HULMAN INSTITUTE OF TECHNOLOGY	12	1	1	24	23
553 EAST CENTRAL OKLAHOMA STATE UNIVERSITY	41	46	44	34	22
554 ST BONAVENTURE UNIVERSITY	24	27	23	22	22
555 GRAND VALLEY STATE COLLEGES	0	0	0	0	22
556 BEMIDJI STATE UNIVERSITY	33	55	16	17	21
557 DREW UNIVERSITY	31	24	24	17	21
558 ADAMS STATE UNIVERSITY	24	37	39	36	20
559 WEST VIRGINIA INSTITUTE OF TECHNOLOGY	0	0	0	0	20
560 UNIVERSITY OF MONTEVALLO	14	19	20	20	20
TOTAL, 1ST 560 INSTS.	371,647	381,809	390,708	398,529	413,142
561 INSTITUTE OF TEXTILE TECHNOLOGY	17	18	17	20	20
562 ARMSTRONG STATE COLLEGE	20	16	15	16	20
563 WILLIAMS COLLEGE	22	22	23	26	19
564 ALABAMA STATE UNIVERSITY	15	16	13	16	19
565 MAYO GRADUATE SCHOOL OF MEDICINE	0	0	0	0	18
566 HENDERSON STATE UNIVERSITY	9	6	0	18	17
567 CATHOLIC UNIVERSITY OF PUERTO RICO	8	14	14	15	16
568 KEARNEY STATE COLLEGE	11	21	12	10	15
569 SOUTHEASTERN LOUISIANA UNIVERSITY	14	17	15	15	15
570 WESTERN CONNECTICUT STATE UNIVERSITY	24	17	18	18	15
TOTAL, 1ST 570 INSTS.	371,787	381,956	390,835	398,683	413,316
571 WESTERN STATE COLLEGE OF COLORADO	9	10	10	9	14
572 GALLAUDET COLLEGE	12	13	14	14	14
573 NIAGARA UNIVERSITY	25	20	29	16	13
574 HARVEY MUDD COLLEGE	4	5	7	7	13
575 MOUNT HOLYOKE COLLEGE	17	9	16	15	12
576 MANSFIELD UNIVERSITY OF PENNSYLVANIA	21	18	16	14	12
577 MIDWEST COLLEGE OF ENGINEERING	47	51	67	37	11
578 SAMFORD UNIVERSITY	6	8	12	11	11
579 CUNY COLLEGE OF STATEN ISLAND ST GEORGE	15	42	11	12	11
580 ROLLINS COLLEGE	3	9	9	5	10
TOTAL, 1ST 580 INSTS.	371,946	382,111	391,026	398,823	413,437
581 UNIVERSITY OF NORTH ALABAMA	39	36	15	12	10
582 WALLA WALLA COLLEGE	10	11	9	9	9
583 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	34	44	42	17	8
584 BRIDGEWATER STATE COLLEGE	21	16	7	8	8
585 WILKES COLLEGE	4	4	5	5	7
586 STETSON UNIVERSITY	6	6	3	8	7
587 SUNY STATE COLLEGE OF OPTOMETRY	3	4	6	6	7
588 INCARNATE WORD COLLEGE	10	12	8	10	7
589 SUNY COLLEGE AT CORTLAND	8	7	13	12	7
590 ROLLINS COLLEGE	255	151	62	24	6
TOTAL, 1ST 590 INSTS.	372,336	382,402	391,196	398,934	413,513
591 SLIPPERY ROCK UNIVERSITY OF PENNSYLVANIA	11	18	7	4	6
592 LYNCHBURG COLLEGE	13	14	8	8	6
593 CHEYNEY UNIVERSITY OF PENNSYLVANIA	6	6	0	0	5
594 FURMAN UNIVERSITY	4	5	5	4	5
595 SUNY COLLEGE AT ONEONTA	15	10	6	5	5
596 UNIVERSITY OF WISCONSIN - RIVER FALLS	18	7	5	5	5
597 VASSAR COLLEGE	4	2	2	2	4
598 PACIFIC UNIVERSITY	2	4	4	4	4
599 DE PAUW UNIVERSITY	5	4	4	4	4
600 OCCIDENTAL COLLEGE	6	5	4	7	2
TOTAL, 1ST 600 INSTS.	372,420	382,477	391,241	398,977	413,559

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TABLE E-11. — INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1979-83

—CONTINUED

INSTITUTIONAL RANKING	1979	1980	1981	1982	1983
601 LOYOLA UNIVERSITY IN NEW ORLEANS	6	2	2	2	2
602 MIDDLEBURY COLLEGE	1	2	2	1	2
603 WHITTIER COLLEGE	6	2	2	2	1
604 OBERLIN COLLEGE	0	0	0	0	0
605 UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	0	0	0	0	0
606 UNIVERSITY OF WISCONSIN - SUPERIOR	0	0	0	0	0
607 WESTERN NEW MEXICO UNIVERSITY	36	15	15	0	0
608 UNIVERSITY OF OSTEOPATHIC MEDICINE	0	0	0	0	0
609 MOREHOUSE SCHOOL OF MEDICINE	0	0	0	0	0
610 CAMPBELL UNIVERSITY	6	5	5	0	0
TOTAL, 1ST 610 INSTS.	372,475	382,503	391,267	398,982	413,564
611 AUGUSTANA COLLEGE	17	13	0	0	0
612 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0	0
613 GRAMBLING STATE UNIVERSITY	17	18	23	0	0
614 CUNY MOUNT SINAI SCHOOL OF MEDICINE	0	0	0	0	0
615 OKLAHOMA COLL OF OSTEO MED & SURGERY	0	0	0	0	0
616 CHICAGO COLL OF OSTEO MEDICINE	0	0	0	0	0
617 WORLD UNIVERSITY	1	3	0	0	0
618 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0	0	0
619 INTER AMERICAN U PUERTO RICO SAN GERMAN	0	0	0	0	0
620 SWARTHMORE COLLEGE	1	1	1	0	0
TOTAL, 1ST 620 INSTS.	372,511	382,538	391,291	398,982	413,564
621 PACIFIC UNION COLLEGE	4	2	1	0	0
622 UNIVERSITY OF HEALTH SCIENCES	0	0	0	0	0
623 WEED UNIVERSITY	115	118	59	0	0
624 RIDER COLLEGE	300	275	227	0	0
625 IMMACULATE HEART COLLEGE	26	0	0	0	0
626 PROVIDENCE COLLEGE	3	1	1	0	0
627 MISSISSIPPI COLLEGE	5	2	0	0	0
628 HOWARD UNIVERSITY	12	1	0	0	0
629 HOLY NAMES COLLEGE	12	10	10	0	0
630 DELTA STATE UNIVERSITY	24	18	0	0	0
TOTAL, 1ST 630 INSTS.	373,012	382,965	391,589	398,982	413,564
631 MERCER UNIVERSITY	0	0	0	0	0
632 COLLEGE OF THE HOLY CROSS	1	4	4	0	0
633 ST MICHAEL'S COLLEGE	27	35	0	0	0
634 TROY STATE UNIVERSITY	82	6	0	0	0
635 MIMOMA STATE UNIVERSITY	7	2	4	0	0
636 BOSTON STATE COLLEGE	41	41	39	0	0
637 SALEM STATE COLLEGE	7	3	4	0	0
638 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0	0
639 PONCE SCHOOL OF MEDICINE	0	23	0	0	0
640 PHILLIPS UNIVERSITY	25	21	0	0	0
TOTAL, 1ST 640 INSTS.	373,198	383,100	391,640	398,982	413,564

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
TOTAL, ALL INSTITUTIONS	20,829	413,564	263,800	149,764
1 HARVARD UNIVERSITY	1,420	2,842	2,771	71
2 UNIVERSITY OF CALIF AT BERKELEY	652	5,381	5,381	0
3 YALE UNIVERSITY	608	1,707	1,659	48
4 UNIVERSITY OF CALIF AT SAN FRANCISCO	601	876	848	28
5 STANFORD UNIVERSITY	545	4,297	3,806	491
6 UNIVERSITY OF WASHINGTON	490	3,958	2,918	1,040
7 UNIVERSITY OF CALIF AT LOS ANGELES	453	4,198	3,952	246
8 UNIVERSITY OF CALIF AT SAN DIEGO	432	1,241	1,149	92
9 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	427	4,466	4,247	219
10 UNIVERSITY OF PENNSYLVANIA	399	2,573	2,085	488
TOTAL, 1ST 10 INSTS.	6,037	31,539	28,816	2,723
11 UNIVERSITY OF WISCONSIN - MADISON	394	5,247	4,584	663
12 JOHNS HOPKINS UNIVERSITY	393	1,456	1,314	142
13 CORNELL UNIVERSITY	359	3,113	3,099	14
14 COLUMBIA UNIVERSITY MAIN DIVISION	348	2,993	2,211	782
15 WASHINGTON UNIVERSITY	322	1,095	867	228
16 UNIVERSITY OF MICHIGAN	293	4,533	3,992	541
17 UNIVERSITY OF COLORADO	287	3,187	2,573	614
18 UNIV OF NORTH CAROLINA AT CHAPEL HILL	258	2,638	2,315	323
19 YESHIVA UNIVERSITY	255	538	433	105
20 UNIVERSITY OF MINNESOTA	252	5,249	4,273	976
TOTAL, 1ST 20 INSTS.	9,198	61,588	54,477	7,111
21 DUKE UNIVERSITY	251	961	870	91
22 UNIVERSITY OF ILLINOIS - URBANA	248	4,556	4,435	121
23 UNIVERSITY OF CHICAGO	243	1,444	1,416	28
24 ROCKEFELLER UNIVERSITY	237	106	96	10
25 UNIVERSITY OF SOUTHERN CALIFORNIA	227	8,343	3,526	4,817
26 UNIVERSITY OF IOWA	220	2,226	1,802	424
27 UNIVERSITY OF ROCHESTER	211	1,098	946	152
28 CALIFORNIA INSTITUTE OF TECHNOLOGY	205	946	946	0
29 UNIVERSITY OF ARIZONA	203	3,295	2,529	766
30 UNIV OF TEXAS AT AUSTIN	200	4,745	3,903	842
TOTAL, 1ST 30 INSTS.	11,443	89,308	74,946	14,362
31 BAYLOR COLLEGE OF MEDICINE	200	146	146	0
32 INDIANA UNIVERSITY	198	2,362	1,639	723
33 UNIVERSITY OF FLORIDA	197	2,849	2,299	550
34 PURDUE UNIVERSITY	186	4,322	3,153	1,169
35 CASE WESTERN RESERVE UNIVERSITY	177	1,778	1,232	546
36 OHIO STATE UNIVERSITY	172	4,917	4,082	835
37 PRINCETON UNIVERSITY	167	1,123	1,123	0
38 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	163	249	239	10
39 SUNY - STONY BROOK	163	2,297	1,615	682
40 UNIVERSITY OF CALIF AT DAVIS	158	2,557	2,412	145
TOTAL, 1ST 40 INSTS.	13,224	111,908	92,886	19,022
41 MICHIGAN STATE UNIVERSITY	155	3,201	2,560	641
42 UNIVERSITY OF PITTSBURGH	154	4,694	2,435	2,259
43 VANDERBILT UNIVERSITY	153	697	634	63
44 NORTHWESTERN UNIVERSITY	152	1,635	1,490	145
45 NEW YORK UNIVERSITY	144	3,853	1,441	2,412
46 UNIVERSITY OF UTAH	142	2,052	1,555	497
47 UNIVERSITY OF MARYLAND - COLLEGE PARK	140	3,196	1,830	1,366
48 UNIVERSITY OF VIRGINIA	140	1,539	1,324	215
49 LOUISIANA STATE UNIVERSITY SYSTEM	137	1,852	1,486	366
50 UNIVERSITY OF ILLINOIS AT CHICAGO	134	2,530	1,677	853
TOTAL, 1ST 50 INSTS.	14,675	137,157	109,318	27,839

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TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

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INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
51	UNIVERSITY OF CALIF AT IRVINE	133	1,178	1,134	44
52	UNIVERSITY OF CONNECTICUT	130	2,460	2,000	460
53	TEXAS A & M UNIVERSITY	124	3,907	3,236	671
54	UNIVERSITY OF KENTUCKY	124	1,716	1,267	449
55	RUTGERS THE STATE UNIVERSITY	119	4,387	1,794	2,593
56	UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	117	251	164	87
57	UNIVERSITY OF KANSAS	117	2,389	2,098	291
58	SUNY - BUFFALO	114	2,368	1,602	766
59	PENNSYLVANIA STATE UNIVERSITY	114	3,557	2,591	966
60	UNIVERSITY OF CALIF AT SANTA BARBARA	114	1,218	1,178	40
	TOTAL, 1ST 60 INSTS.	15,881	160,588	126,382	34,206
61	VIRGINIA COMMONWEALTH UNIVERSITY	112	1,318	895	423
62	MAYO GRADUATE SCHOOL OF MEDICINE	111	18	18	0
63	TEMPLE UNIVERSITY	111	1,478	901	577
64	THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	110	878	564	314
65	CARNEGIE-MELLON UNIVERSITY	103	1,144	965	179
66	UNIVERSITY OF GEORGIA	101	1,731	1,567	164
67	BRANDEIS UNIVERSITY	96	318	312	6
68	UNIVERSITY OF OKLAHOMA	86	2,294	1,551	743
69	TUFTS UNIVERSITY	84	571	470	101
70	UNIVERSITY OF CALIF AT RIVERSIDE	82	817	791	26
	TOTAL, 1ST 70 INSTS.	16,878	171,195	134,416	36,779
71	COLORADO STATE UNIVERSITY	82	1,813	1,325	488
72	RICE UNIVERSITY	78	689	664	25
73	UNIVERSITY OF CINCINNATI	77	2,468	1,400	1,068
74	UNIVERSITY OF OREGON	75	779	726	53
75	UNIV OF TEXAS MED BRANCH AT GALVESTON	73	173	138	35
76	ARIZONA STATE UNIVERSITY	70	2,446	1,485	961
77	UNIVERSITY OF MARYLAND - BALT PROF SCH	70	761	343	418
78	OREGON STATE UNIVERSITY	66	1,657	1,463	194
79	UNIVERSITY OF MISSOURI - COLUMBIA	65	1,949	1,464	485
80	UNIVERSITY OF MIAMI	64	1,076	810	266
	TOTAL, 1ST 80 INSTS.	17,596	184,966	144,234	40,732
81	UNIVERSITY OF MASSACHUSETTS AT WORCESTER	64	52	50	2
82	NORTH CAROLINA STATE UNIV AT RALEIGH	63	2,634	2,121	513
83	BOSTON UNIVERSITY	62	2,592	1,642	950
84	CUNY GRADUATE SCHOOL AND UNIV CENTER	62	1,803	1,722	81
85	EMORY UNIVERSITY	60	513	415	98
86	WASHINGTON STATE UNIVERSITY	59	1,367	1,176	191
87	UNIVERSITY OF HOUSTON-UNIVERSITY PARK	57	1,701	867	834
88	UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	57	0	0	0
89	RENSSELAER POLYTECHNIC INSTITUTE	52	1,825	1,358	467
90	UNIVERSITY OF TENNESSEE AT KNOXVILLE	52	2,770	1,788	982
	TOTAL, 1ST 90 INSTS.	18,184	200,223	155,373	44,850
91	VIRGINIA POLYTECHNIC INST AND STATE UNIV	51	2,555	1,919	636
92	UNIV OF MED AND DENT OF NEW JERSEY	51	228	177	51
93	UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	51	634	426	208
94	GEORGIA INSTITUTE OF TECHNOLOGY	50	2,000	1,507	493
95	UNIVERSITY OF SOUTH CAROLINA	50	1,814	1,155	659
96	KANSAS STATE UNIV OF AGR & APPLIED SCI	48	1,331	1,087	244
97	BROWN UNIVERSITY	48	749	699	50
98	SYRACUSE UNIVERSITY	47	2,388	1,164	1,224
99	IOWA STATE UNIVERSITY OF SCI & TECH	46	2,637	2,129	508
100	UNIVERSITY OF MASSACHUSETTS AT AMHERST	45	2,317	1,455	862
	TOTAL, 1ST 100 INSTS.	18,671	216,876	167,091	49,785

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TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
101 UNIVERSITY OF NEBRASKA - LINCOLN	44	1,442	1,143	319
102 DARTMOUTH COLLEGE	42	292	286	6
103 TEXAS TECH UNIVERSITY	42	1,089	930	159
104 GEORGETOWN UNIVERSITY	41	990	659	331
105 FLORIDA STATE UNIVERSITY	41	1,598	1,167	431
106 WAYNE STATE UNIVERSITY	39	2,149	1,253	896
107 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	38	159	106	53
108 ST LOUIS UNIVERSITY	38	804	440	364
109 WOODS HOLE OCEANOGRAPHIC INSTITUTION	37	100	100	0
110 SUNY - ALBANY	36	843	602	241
TOTAL, 1ST 110 INSTS.	19,069	226,362	173,777	52,585
111 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	35	84	84	0
112 MEDICAL UNIVERSITY OF SOUTH CAROLINA	34	84	54	20
113 HOWARD UNIVERSITY	34	831	643	188
114 THOMAS JEFFERSON UNIVERSITY	34	59	59	0
115 UNIVERSITY OF CALIF AT SANTA CRUZ	33	375	375	0
116 UTAH STATE UNIVERSITY	33	1,065	919	146
117 UNIVERSITY OF NOTRE DAME	33	663	620	43
118 CURY CITY COLLEGE	33	928	422	506
119 UNIVERSITY OF DELAWARE	30	1,180	776	404
120 OKLAHOMA STATE UNIVERSITY	30	1,479	1,299	180
TOTAL, 1ST 120 INSTS.	19,398	233,110	179,038	54,072
121 UNIVERSITY OF HAWAII AT MANOA	30	1,965	1,670	295
122 MONTANA STATE UNIVERSITY	30	508	488	20
123 WEST VIRGINIA UNIVERSITY	30	2,486	1,188	1,298
124 NORTHEASTERN UNIVERSITY	29	3,539	985	2,554
125 NEW YORK MEDICAL COLLEGE	29	264	76	188
126 WAKE FOREST UNIVERSITY	29	176	132	44
127 UNIVERSITY OF MISSISSIPPI	27	540	483	57
128 NORTH TEXAS STATE UNIVERSITY	27	1,274	820	454
129 DREXEL UNIVERSITY	27	1,102	426	676
130 TULANE UNIVERSITY OF LOUISIANA	27	968	694	274
TOTAL, 1ST 130 INSTS.	19,683	245,932	186,000	59,932
131 LOYOLA UNIVERSITY OF CHICAGO	26	872	416	456
132 BRIGHAM YOUNG UNIVERSITY	26	920	579	341
133 UNIV OF TEXAS AT ARLINGTON	25	1,897	936	961
134 UNIVERSITY OF NEW MEXICO	25	1,540	946	594
135 UNIVERSITY OF LOUISVILLE	24	1,149	665	484
136 SAN DIEGO STATE UNIVERSITY	23	1,954	1,054	900
137 UNIVERSITY OF ARKANSAS	23	997	766	231
138 UNIVERSITY OF WISCONSIN - MILWAUKEE	23	1,936	1,003	933
139 MEDICAL COLLEGE OF GEORGIA	23	165	114	51
140 LEHIGH UNIVERSITY	23	963	604	359
TOTAL, 1ST 140 INSTS.	19,924	258,325	193,083	65,242
141 UNIVERSITY OF NEVADA AT RENO	22	532	390	142
142 CLARKSON UNIVERSITY	22	303	249	54
143 SUNY - UPSTATE MEDICAL CENTER	21	45	35	10
144 SOUTHERN ILLINOIS UNIV AT CARBONDALE	20	1,269	1,071	198
145 OLD DOMINION UNIVERSITY	20	991	422	569
146 OREGON HEALTH SCIENCES UNIVERSITY	19	47	44	3
147 GEORGE WASHINGTON UNIVERSITY	19	3,388	819	2,569
148 MEDICAL COLLEGE OF WISCONSIN	18	67	62	5
149 POLYTECHNIC INSTITUTE OF NEW YORK	18	1,540	323	1,217
150 THE MEDICAL COLLEGE OF PENNSYLVANIA	18	101	34	67
TOTAL, 1ST 150 INSTS.	20,121	266,608	196,532	70,076

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TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1989

- CONTINUED

INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
151	NORTH DAKOTA STATE UNIVERSITY	17	629	512	117
152	UNIVERSITY OF DENVER	17	1,041	798	243
153	UNIV OF TEXAS AT DALLAS	17	842	487	355
154	UNIVERSITY OF IDAHO	16	771	483	288
155	ILLINOIS INSTITUTE OF TECHNOLOGY	16	1,784	386	1,398
156	SUNY - DOWNSTATE MEDICAL CENTER	16	79	32	47
157	STEVENS INSTITUTE OF TECHNOLOGY	15	1,300	405	895
158	SUNY - COLL OF ENV SCIENCE AND FORESTRY	15	431	275	156
159	LOMA LINDA UNIVERSITY	15	649	359	290
160	US NAVAL POSTGRADUATE SCHOOL	14	1,266	1,266	0
	TOTAL, 1ST 160 INSTS.	20,279	275,400	201,535	73,865
161	GEORGIA STATE UNIVERSITY	14	909	548	361
162	UNIVERSITY OF AKRON	14	1,132	579	553
163	ALBANY MEDICAL COLLEGE	14	64	63	1
164	NEW MEXICO STATE UNIVERSITY	14	802	629	173
165	OREGON GRADUATE CENTER	13	89	67	22
166	THE UNIVERSITY OF ALABAMA	13	782	637	145
167	AUBURN UNIVERSITY	13	934	812	122
168	BOSTON COLLEGE	13	481	399	82
169	CATHOLIC UNIVERSITY OF AMERICA	13	1,577	591	986
170	UNIVERSITY OF WYOMING	12	835	794	41
	TOTAL, 1ST 170 INSTS.	20,412	283,055	206,654	76,401
171	TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	12	50	49	5
172	UNIVERSITY OF MISSOURI - ROLLA	12	1,068	617	451
173	WRIGHT STATE UNIVERSITY	12	677	363	314
174	HAHNEMANN UNIVERSITY	11	257	250	7
175	MARQUETTE UNIVERSITY	11	639	359	280
176	UNIVERSITY OF SOUTH ALABAMA	11	229	132	97
177	UNIVERSITY OF NEW ORLEANS	10	508	271	237
178	RUSH UNIVERSITY	10	115	106	9
179	UNIVERSITY OF HEALTH SCIENCES	10	94	91	3
180	UNIVERSITY OF NEBRASKA MEDICAL CENTER	10	244	133	111
	TOTAL, 1ST 180 INSTS.	20,521	286,936	209,021	77,915
181	SOUTHERN METHODIST UNIVERSITY	10	892	333	559
182	UNIVERSITY OF RHODE ISLAND	9	1,102	727	375
183	SUNY - BINGHAMTON	9	1,126	585	541
184	UNIVERSITY OF MARYLAND - BALTIMORE CNTY	9	358	143	215
185	CLEMSON UNIVERSITY	9	1,119	882	237
186	UNIVERSITY OF MAINE AT ORONO	9	509	412	97
187	UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	8	471	399	72
188	UNIVERSITY OF LOWELL	8	1,408	431	977
189	THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	8	493	173	320
190	MISSISSIPPI STATE UNIVERSITY	8	973	774	199
	TOTAL, 1ST 190 INSTS.	20,608	295,387	213,880	81,507
191	UNIVERSITY OF SOUTH FLORIDA	7	1,087	571	516
192	UNIVERSITY OF NEW HAMPSHIRE	7	508	385	123
193	UNIVERSITY OF MONTANA	7	492	442	50
194	COLLEGE OF WILLIAM AND MARY	7	285	196	89
195	KENT STATE UNIVERSITY	7	794	518	276
196	AMERICAN UNIVERSITY	7	1,459	495	964
197	EAST CAROLINA UNIVERSITY	7	443	262	181
198	OHIO UNIVERSITY	6	864	755	109
199	UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	6	192	90	102
200	BAYLOR UNIVERSITY	5	237	198	39
	TOTAL, 1ST 200 INSTS.	20,674	301,748	217,792	83,956

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TABLE E-12. -- INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
201 UNIVERSITY OF TEXAS AT SAN ANTONIO	5	156	45	111
202 CLEVELAND STATE UNIVERSITY	5	964	285	679
203 CUNY QUEENS COLLEGE	5	383	114	269
204 WESLEYAN UNIVERSITY	5	104	104	0
205 UNIVERSITY OF NORTH DAKOTA	4	365	290	75
206 UNIV OF TEXAS AT EL PASO	4	644	373	271
207 MIAMI UNIVERSITY	4	536	437	99
208 WORCESTER POLYTECHNIC INSTITUTE	4	932	251	681
209 UNIVERSITY OF SOUTHERN MISSISSIPPI	4	550	393	157
210 UNIVERSITY OF TOLEDO	4	658	341	317
TOTAL, 1ST 210 INSTS.	20,718	307,040	220,425	86,615
211 UNIVERSITY OF DETROIT	4	541	220	321
212 INDIANA STATE UNIVERSITY	3	290	214	76
213 BUCKNELL UNIVERSITY	3	33	27	6
214 BOWLING GREEN STATE UNIVERSITY	3	475	407	68
215 UNIVERSITY OF SOUTH DAKOTA	3	169	146	23
216 SOUTH DAKOTA SCHOOL OF MINES AND TECH	3	223	156	67
217 MEMPHIS STATE UNIVERSITY	3	829	425	404
218 NORTHERN ILLINOIS UNIVERSITY	3	906	565	341
219 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	3	1,228	775	453
220 UNIVERSITY OF ALASKA AT FAIRBANKS	3	424	325	99
TOTAL, 1ST 220 INSTS.	20,749	312,158	223,685	88,473
221 CREIGHTON UNIVERSITY	3	46	36	10
222 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	3	0	0	0
223 TRINITY UNIVERSITY	2	305	138	167
224 TEXAS A&M UNIVERSITY	2	1,945	720	1,225
225 PACIFIC STATES UNIVERSITY	2	28	22	6
226 SAN JOSE STATE UNIVERSITY	2	1,742	581	1,161
227 NORTHERN ARIZONA UNIVERSITY	2	643	416	227
228 MARSHALL UNIVERSITY	2	151	111	40
229 INSTITUTE OF PAPER CHEMISTRY	2	100	100	0
230 UNIVERSITY OF RICHMOND	2	35	15	20
TOTAL, 1ST 230 INSTS.	20,771	317,153	225,824	91,329
231 MEHARRY MEDICAL COLLEGE	2	36	36	0
232 NORTH CAROLINA A & T STATE UNIVERSITY	2	232	158	74
233 FLORIDA INSTITUTE OF TECHNOLOGY	2	2,904	526	2,378
234 FLORIDA ATLANTIC UNIVERSITY	2	535	179	376
235 ATLANTA UNIVERSITY	2	531	389	142
236 ORAL ROBERTS UNIVERSITY	2	36	22	14
237 WESTERN MICHIGAN UNIVERSITY	2	1,381	592	789
238 NE OHIO UNIV MED SCHOOL	2	34	31	3
239 CLARK UNIVERSITY	2	198	185	13
240 NEW MEXICO INSTITUTE OF MINING AND TECH	2	209	209	0
TOTAL, 1ST 240 INSTS.	20,791	323,269	228,151	95,118
241 UNIVERSITY OF NEVADA AT LAS VEGAS	2	190	167	23
242 ILLINOIS STATE UNIVERSITY	2	466	329	137
243 ALABAMA A & M UNIVERSITY	2	251	181	70
244 UNIVERSITY OF MISSOURI - ST LOUIS	2	300	121	179
245 EASTERN VIRGINIA MEDICAL SCHOOL	2	63	51	12
246 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	1	110	47	63
247 MEDICAL COLLEGE OF OHIO AT TOLEDO	1	46	34	12
248 SUNY COLLEGE AT PLATTSBURGH	1	62	50	12
249 TUSKEGEE INSTITUTE	1	118	117	1
250 LOUISIANA TECH UNIVERSITY	1	213	163	50
TOTAL, 1ST 250 INSTS.	20,806	325,088	229,411	95,677

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TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

- CONTINUED

INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
251	ST BONAVENTURE UNIVERSITY	1	22	12	10
252	LONG ISLAND UNIVERSITY	1	1,945	244	1,701
253	UNIVERSITY OF ARKANSAS AT LITTLE ROCK	1	268	99	169
254	EASTERN WASHINGTON UNIVERSITY	1	348	192	156
255	VIRGINIA STATE UNIVERSITY	1	62	36	26
256	IDAHO STATE UNIVERSITY	1	233	170	63
257	SUNY COLLEGE AT BUFFALO	1	53	21	32
258	ALFRED UNIVERSITY	1	178	79	99
259	SAN FRANCISCO STATE UNIVERSITY	1	858	480	378
260	ADELPHI UNIVERSITY	1	1,018	324	694
	TOTAL, 1ST 260 INSTS.	20,816	330,073	231,068	99,005
261	EASTERN NEW MEXICO UNIVERSITY	1	145	86	59
262	MASS COLLEGE OF PHARMACY/ALLIED HEALTH	1	56	51	5
263	DUQUESNE UNIVERSITY	1	314	117	197
264	MOREHOUSE SCHOOL OF MEDICINE	1	0	0	0
265	FORDHAM UNIVERSITY	1	579	275	304
266	LAMAR UNIVERSITY	1	289	204	85
267	SETON HALL UNIVERSITY	1	366	127	239
268	EAST TEXAS STATE UNIVERSITY	1	645	[illegible]	392
269	TENNESSEE STATE UNIVERSITY	1	388	83	305
270	FISK UNIVERSITY	1	25	21	4
	TOTAL, 1ST 270 INSTS.	20,826	332,880	232,285	100,595
271	UNIVERSITY OF DAYTON	1	543	170	373
272	MIDDLEBURY COLLEGE	1	2	2	0
273	SOUTH DAKOTA STATE UNIVERSITY	1	397	281	116
274	INDIANA CENTRAL UNIVERSITY	0	78	70	8
275	MONMOUTH COLLEGE(NJ)	0	133	12	121
276	NEW JERSEY INSTITUTE OF TECHNOLOGY	0	940	181	759
277	DREW UNIVERSITY	0	21	5	16
278	MONTCLAIR STATE COLLEGE	0	604	70	534
279	EMERSON COLLEGE	0	42	38	4
280	DE PAUL UNIVERSITY	0	1,005	393	612
	TOTAL, 1ST 280 INSTS.	20,829	336,645	233,507	103,138
281	RIVIER COLLEGE	0	63	2	61
282	JACKSON STATE UNIVERSITY	0	253	123	130
283	NEW MEXICO HIGHLANDS UNIVERSITY	0	73	71	2
284	KEAN COLLEGE OF NEW JERSEY	0	108	10	98
285	WILLIAM PATERSON COLLEGE	0	133	19	114
286	MISSISSIPPI COLLEGE	0	0	0	0
287	KEARNEY STATE COLLEGE	0	15	10	5
288	NORTHEASTERN ILLINOIS UNIVERSITY	0	239	11	228
289	LORAS COLLEGE	0	25	0	25
290	UNIVERSITY OF MISSOURI - KANSAS CITY	0	625	214	411
	TOTAL, 1ST 290 INSTS.	20,829	338,179	233,967	104,212
291	MOORHEAD STATE UNIVERSITY	0	58	40	18
292	EASTERN ILLINOIS UNIVERSITY	0	146	114	32
293	ST MARY'S COLLEGE	0	316	133	183
294	GEORGE WILLIAMS COLLEGE	0	464	162	302
295	COLLEGE OF ST ROSE	0	116	3	113
296	UNIVERSITY OF NEBRASKA - OMAHA	0	645	240	405
297	TRENTON STATE COLLEGE	0	99	5	94
298	CHICAGO COLL OF OSTEO MEDICINE	0	0	0	0
299	HOFSTRA UNIVERSITY	0	386	353	33
300	IONA COLLEGE	0	490	0	490
	TOTAL, 1ST 300 INSTS.	20,829	340,899	235,017	105,882

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TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
301 VALDOSTA STATE COLLEGE	0	98	34	64
302 GEORGIA SOUTHERN COLLEGE	0	54	31	23
303 MANKATO STATE UNIVERSITY	0	294	199	95
304 ST CLOUD STATE UNIVERSITY	0	30	17	13
305 BRADLEY UNIVERSITY	0	154	57	97
306 ROOSEVELT UNIVERSITY	0	566	164	402
307 SOUTHWEST MISSOURI STATE UNIVERSITY	0	113	58	55
308 BRIDGEWATER STATE COLLEGE	0	8	0	8
309 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	0	75	65	10
310 STETSON UNIVERSITY	0	7	0	7
TOTAL, 1ST 310 INSTS.	20,829	342,298	235,642	106,656
311 THE HARTFORD GRADUATE CENTER	0	1,017	45	972
312 ROCHESTER INSTITUTE OF TECHNOLOGY	0	869	90	779
313 CHICAGO STATE UNIVERSITY	0	39	3	36
314 SARAH LAWRENCE COLLEGE	0	49	45	4
315 MISSISSIPPI UNIVERSITY FOR WOMEN	0	34	18	16
316 CUNY BROOKLYN COLLEGE	0	393	46	347
317 NOVA UNIVERSITY	0	436	320	116
318 UNIVERSITY OF HEALTH SCIENCES	0	0	0	0
319 UNIVERSITY OF EVANSVILLE	0	159	15	144
320 FRAMINGHAM STATE COLLEGE	0	49	15	34
TOTAL, 1ST 320 INSTS.	20,829	345,343	236,239	109,104
321 SUNY COLLEGE AT BROCKPORT	0	128	26	102
322 CUNY HUNTER COLLEGE	0	1,396	751	645
323 SUNY COLLEGE AT CORTLAND	0	7	6	1
324 SUNY COLLEGE AT FREDONIA	0	43	27	16
325 SUNY COLLEGE AT GENESEO	0	68	57	11
326 SUNY COLLEGE AT NEW PALTZ	0	129	48	81
327 SUNY COLLEGE AT ONEONTA	0	5	3	2
328 SUNY COLLEGE AT OSWEGO	0	272	73	199
329 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	0	450	71	379
330 CENTRAL MISSOURI STATE UNIVERSITY	0	165	111	54
TOTAL, 1ST 330 INSTS.	20,829	348,006	237,412	110,594
331 GEORGIA COLLEGE	0	37	12	25
332 MURRAY STATE UNIVERSITY	0	116	83	33
333 COLLEGE OF NEW ROCHELLE	0	193	29	164
334 OAKLAND UNIVERSITY	0	402	118	284
335 VASSAR COLLEGE	0	4	0	4
336 WAGNER COLLEGE	0	142	14	128
337 WEST GEORGIA COLLEGE	0	81	33	48
338 COOPER UNION	0	59	36	23
339 APPALACHIAN STATE UNIVERSITY	0	174	128	46
340 BARRY UNIVERSITY	0	235	94	141
TOTAL, 1ST 340 INSTS.	20,829	349,449	237,959	111,490
341 ASSUMPTION COLLEGE	0	134	48	86
342 NORTH CAROLINA CENTRAL UNIVERSITY	0	74	39	35
343 GALLAUDET COLLEGE	0	14	14	0
344 MOREHEAD STATE UNIVERSITY	0	76	50	26
345 UNIV OF NORTH CAROLINA AT CHARLOTTE	0	245	78	167
346 UNIV OF NORTH CAROLINA AT GREENSBORO	0	511	219	292
347 ANNA MARIA COLLEGE	0	303	10	293
348 WESTERN CAROLINA UNIVERSITY	0	121	64	57
349 UNIVERSITY OF NORTH CAROLINA/WILMINGTON	0	31	7	24
350 AIR FORCE INSTITUTE OF TECHNOLOGY	0	583	583	0
TOTAL, 1ST 350 INSTS.	20,829	351,541	239,071	112,470

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TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

- CONTINUED

INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
351	AMERICAN INTERNATIONAL COLLEGE	0	217	48	169
352	WASHINGTON COLLEGE	0	85	0	85
353	BEMIDJI STATE UNIVERSITY	0	21	14	7
354	AUGUSTA COLLEGE	0	25	18	7
355	SAINT FRANCIS COLLEGE	0	43	12	31
356	XAVIER UNIVERSITY	0	150	101	49
357	YOUNGSTOWN STATE UNIVERSITY	0	158	45	113
358	EAST CENTRAL OKLAHOMA STATE UNIVERSITY	0	22	9	13
359	SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	0	69	25	44
360	ROSE-HULMAN INSTITUTE OF TECHNOLOGY	0	23	18	5
	TOTAL, 1ST 360 INSTS.	20,829	352,354	239,361	112,993
361	ARMSTRONG STATE COLLEGE	0	20	0	20
362	UNIVERSITY OF HARTFORD	0	230	90	140
363	PACIFIC UNIVERSITY	0	4	4	0
364	PORTLAND STATE UNIVERSITY	0	733	404	329
365	SOUTHERN OREGON STATE COLLEGE	0	39	17	22
366	UNIVERSITY OF BRIDGEPORT	0	547	92	455
367	UNIVERSITY OF PORTLAND	0	103	89	14
368	MICHIGAN TECHNOLOGICAL UNIVERSITY	0	342	334	8
369	VALPARAISO UNIVERSITY	0	33	4	29
370	TRINITY COLLEGE	0	45	0	45
	TOTAL, 1ST 370 INSTS.	20,829	354,450	240,395	114,055
371	ST JOSEPH COLLEGE	0	150	0	150
372	ROLLINS COLLEGE	0	6	1	5
373	GANNON UNIVERSITY	0	96	39	57
374	SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	0	365	240	125
375	SOUTHERN CONNECTICUT STATE UNIVERSITY	0	238	108	130
376	QUINNIPIAC COLLEGE	0	214	13	201
377	NORTHEAST MISSOURI STATE UNIVERSITY	0	107	59	48
378	SOUTHEAST MISSOURI STATE UNIVERSITY	0	30	17	13
379	NORTHWEST MISSOURI STATE UNIVERSITY	0	94	43	51
380	GRAND VALLEY STATE COLLEGES	0	22	0	22
	TOTAL, 1ST 380 INSTS.	20,829	355,772	240,915	114,857
381	ST JOHN'S UNIVERSITY	0	753	224	529
382	EASTERN MICHIGAN UNIVERSITY	0	570	230	340
383	EDINBORO UNIVERSITY OF PENNSYLVANIA	0	154	67	87
384	KUTZTOWN UNIVERSITY OF PENNSYLVANIA	0	50	3	47
385	WORCESTER STATE COLLEGE	0	138	0	138
386	MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	0	153	22	131
387	JACKSONVILLE UNIVERSITY	0	72	0	72
388	WESTERN KENTUCKY UNIVERSITY	0	218	117	101
389	WEST CHESTER UNIVERSITY OF PENNSYLVANIA	0	306	73	233
390	PHILA COLLEGE OF OSTEOPATHIC MEDICINE	0	8	8	0
	TOTAL, 1ST 390 INSTS.	20,829	358,194	241,659	116,535
391	PHILADELPHIA COLL OF PHARMACY AND SCI	0	47	36	11
392	ST JOSEPH'S UNIVERSITY	0	44	5	39
393	SWARTHMORE COLLEGE	0	0	0	0
394	UNIVERSITY OF NEW HAVEN	0	602	72	530
395	WESTERN CONNECTICUT STATE UNIVERSITY	0	15	2	13
396	UNIVERSITY OF SCRANTON	0	173	69	104
397	VILLANOVA UNIVERSITY	0	1,123	200	923
398	WILKES COLLEGE	0	7	0	7
399	CONNECTICUT COLLEGE	0	28	22	6
400	CENTRAL CONNECTICUT STATE UNIVERSITY	0	146	27	119
	TOTAL, 1ST 400 INSTS.	20,829	360,379	242,092	118,287

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TABLE E-12. -- INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
401 PROVIDENCE COLLEGE	0	0	0	0
402 RHODE ISLAND COLLEGE	0	212	95	117
403 MORGAN STATE UNIVERSITY	0	62	37	25
404 CITADEL MILITARY COLL OF SOUTH CAROLINA	0	29	2	27
405 LOYOLA COLLEGE	0	676	125	551
406 COLLEGE OF CHARLESTON	0	67	34	33
407 FURMAN UNIVERSITY	0	5	5	0
408 WESTERN STATE COLLEGE OF COLORADO	0	14	10	4
409 WINTHROP COLLEGE	0	56	25	31
410 ANDREWS UNIVERSITY	0	86	26	60
TOTAL, 1ST 410 INSTS.	20,829	361,586	242,451	119,135
411 SUNY COLLEGE AT POTSDAM	0	23	2	21
412 SALEM STATE COLLEGE	0	0	0	0
413 AUSTIN PEAY STATE UNIVERSITY	0	49	14	35
414 EAST TENNESSEE STATE UNIVERSITY	0	224	89	135
415 FLORIDA A & M UNIVERSITY	0	58	50	8
416 WESTERN ILLINOIS UNIVERSITY	0	320	257	63
417 WILLIAMS COLLEGE	0	19	19	0
418 MIDDLE TENNESSEE STATE UNIVERSITY	0	256	108	148
419 UNION COLLEGE(NY)	0	142	31	111
420 TENNESSEE TECHNOLOGICAL UNIVERSITY	0	174	111	63
TOTAL, 1ST 420 INSTS.	20,829	362,851	243,132	119,719
421 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	0	171	74	97
422 UNIVERSITY OF NORTHERN COLORADO	0	79	73	6
423 COLORADO SCHOOL OF MINES	0	582	436	146
424 ABILENE CHRISTIAN UNIVERSITY	0	34	29	5
425 ANGELO STATE UNIVERSITY	0	69	20	49
426 BISCAYNE COLLEGE	0	245	100	145
427 INCARNATE WORD COLLEGE	0	7	7	0
428 NORTHERN MICHIGAN UNIVERSITY	0	90	24	66
429 MIDWESTERN STATE UNIVERSITY	0	143	12	131
430 ADAMS STATE UNIVERSITY	0	20	20	0
TOTAL, 1ST 430 INSTS.	20,829	364,291	243,927	120,364
431 PAN AMERICAN UNIVERSITY	0	28	7	21
432 WHITTIER COLLEGE	0	1	1	0
433 SAM HOUSTON STATE UNIVERSITY	0	445	284	161
434 UNIVERSITY OF OSTEOPATHIC MEDICINE	0	0	0	0
435 SOUTHWEST TEXAS STATE UNIVERSITY	0	532	160	372
436 ST MARY'S UNIVERSITY OF SAN ANTONIO	0	240	80	160
437 STEPHEN F. AUSTIN STATE UNIVERSITY	0	268	202	66
438 SUL ROSS STATE UNIVERSITY	0	74	54	20
439 PRAIRIE VIEW A & M UNIVERSITY	0	116	98	18
440 TARLETON STATE UNIVERSITY	0	54	30	24
TOTAL, 1ST 440 INSTS.	20,829	366,049	244,843	121,206
441 UNIVERSITY OF THE PACIFIC	0	77	77	0
442 TEXAS CHRISTIAN UNIVERSITY	0	102	77	25
443 TEXAS A & I UNIVERSITY	0	[illegible]	157	40
444 TEXAS SOUTHERN UNIVERSITY	0	174	114	60
445 UNIVERSITY OF SANTA CLARA	0	1,310	75	1,235
446 WESTERN NEW ENGLAND COL	0	147	0	147
447 UNIVERSITY OF MASSACHUSETTS-BOSTON	0	108	51	57
448 UNIVERSITY OF SAN FRANCISCO	0	448	403	45
449 UNIVERSITY OF REDLANDS	0	42	24	18
450 PEPPERDINE UNIVERSITY	0	375	228	147
TOTAL, 1ST 450 INSTS.	20,829	369,029	246,049	122,980

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TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
451 BALL STATE UNIVERSITY	0	570	292	278
452 OCCIDENTAL COLLEGE	0	2	2	0
453 NORTHROP UNIVERSITY	0	76	22	54
454 MOOD COLLEGE	0	335	22	313
455 WEST TEXAS STATE UNIVERSITY	0	307	68	239
456 MONTEREY INST OF INTL STUDIES	0	81	73	8
457 UNIVERSITY OF LA VERNE	0	248	42	206
458 GODDARD COLLEGE	0	38	38	0
459 JOHN CARROLL UNIVERSITY	0	50	17	33
460 GOLDEN GATE UNIVERSITY	0	139	24	115
TOTAL, 1ST 460 INSTS.	20,829	370,875	246,649	124,226
461 HAMPTON INSTITUTE	0	110	82	28
462 MOLLINS COLLEGE	0	10	9	1
463 INSTITUTE OF TEXTILE TECHNOLOGY	0	20	20	0
464 LYNCHBURG COLLEGE	0	6	0	6
465 JAMES MADISON UNIVERSITY	0	110	66	44
466 FULLER THEOLOGICAL SEMINARY	0	172	170	2
467 RADFORD UNIVERSITY	0	77	45	32
468 DOMINICAN COLLEGE OF SAN RAFAEL	0	41	21	20
469 BUTLER UNIVERSITY	0	83	7	76
470 HARVEY MUDD COLLEGE	0	13	13	0
TOTAL, 1ST 470 INSTS.	20,829	371,517	247,082	124,435
471 GEORGE MASON UNIVERSITY	0	502	124	378
472 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	0	229	132	97
473 UNIVERSITY OF TULSA	0	257	139	118
474 CENTRAL WASHINGTON UNIVERSITY	0	84	69	15
475 WESTERN OREGON STATE COLLEGE	0	119	53	66
476 PACIFIC LUTHERAN UNIVERSITY	0	140	41	99
477 SEATTLE UNIVERSITY	0	349	129	220
478 UNIVERSITY OF PUGET SOUND	0	23	21	2
479 CHAPMAN COLLEGE	0	175	18	157
480 WALLA WALLA COLLEGE	0	9	9	0
TOTAL, 1ST 480 INSTS.	20,829	373,404	247,817	125,587
481 US INTERNATIONAL UNIVERSITY	0	610	343	267
482 WESTERN WASHINGTON UNIVERSITY	0	214	176	38
483 WHITWORTH COLLEGE	0	62	62	0
484 SUFFOLK UNIVERSITY	0	163	35	128
485 WEST VIRGINIA INSTITUTE OF TECHNOLOGY	0	20	14	6
486 CALIF STATE COLLEGE OF STANISLAUS	0	192	95	97
487 FROSTBURG STATE COLLEGE	0	58	26	32
488 MILWAUKEE SCHOOL OF ENGINEERING	0	79	5	74
489 SONOMA STATE UNIVERSITY	0	173	70	103
490 SMITH COLLEGE	0	195	194	1
TOTAL, 1ST 490 INSTS.	20,829	375,170	248,137	126,333
491 UNIVERSITY OF WISCONSIN - GREEN BAY	0	68	19	49
492 UNIVERSITY OF WISCONSIN - STOUT	0	347	242	105
493 UNIVERSITY OF WISCONSIN - EAU CLAIRE	0	87	54	33
494 UNIVERSITY OF WISCONSIN - LA CROSSE	0	93	55	38
495 UNIVERSITY OF WISCONSIN - PLATTEVILLE	0	46	23	23
496 UNIVERSITY OF WISCONSIN - RIVER FALLS	0	5	3	2
497 UNIVERSITY OF WISCONSIN - STEVENS POINT	0	138	114	24
498 UNIVERSITY OF WISCONSIN - WHITEWATER	0	39	19	20
499 EASTERN KENTUCKY UNIVERSITY	0	157	113	44
500 UNIVERSITY OF GUAM	0	35	12	23
TOTAL, 1ST 500 INSTS.	20,829	376,185	249,491	126,694

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TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
501 CATHOLIC UNIVERSITY OF PUERTO RICO	0	16	10	6
502 UNIVERSITY OF PUERTO RICO	0	310	222	88
503 COPPIN STATE COLLEGE	0	25	9	16
504 UNIVERSITY OF CENTRAL FLORIDA	0	814	274	540
505 UNIVERSITY OF WEST FLORIDA	0	322	110	212
506 COLUMBIA UNIVERSITY TEACHERS COLLEGE	0	1,400	517	883
507 DE PAUW UNIVERSITY	0	4	4	0
508 WIDENER UNIVERSITY	0	105	17	88
509 JOHN F KENNEDY UNIVERSITY	0	796	317	479
510 CUNY BERNARD BARUCH COLLEGE	0	788	146	642
TOTAL, 1ST 510 INSTS.	20,829	380,765	251,117	129,648
511 CALIF STATE UNIVERSITY AT NORTHRIDGE	0	1,160	457	703
512 BAYLOR COLLEGE OF DENTISTRY	0	44	28	16
513 CALIF STATE UNIVERSITY AT SACRAMENTO	0	1,191	437	754
514 HUMBOLDT STATE UNIVERSITY	0	92	49	43
515 MOUNT HOLYOKE COLLEGE	0	12	10	2
516 WORLD UNIVERSITY	0	0	0	0
517 CALIF STATE UNIVERSITY AT FRESNO	0	643	235	408
518 WEST VIRGINIA COLLEGE OF GRAD STUDIES	0	531	36	495
519 UNIVERSITY OF SOUTHWESTERN LOUISIANA	0	656	424	232
520 DRAKE UNIVERSITY	0	97	39	58
TOTAL, 1ST 520 INSTS.	20,829	385,193	252,832	132,361
521 CUNY LEHMAN COLLEGE	0	60	39	21
522 CENTRAL MICHIGAN UNIVERSITY	0	449	250	199
523 BRYN MAWR COLLEGE	0	178	80	98
524 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	0	65	9	56
525 CALIF STATE UNIVERSITY AT CHICO	0	288	238	50
526 SPALDING UNIVERSITY	0	120	16	104
527 ARKANSAS STATE UNIVERSITY	0	240	98	142
528 WEST COAST UNIVERSITY	0	306	180	126
529 CALIF STATE POLYTECHNIC UNIV AT PONONA	0	551	178	373
530 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	0	250	179	71
TOTAL, 1ST 530 INSTS.	20,829	387,700	254,099	133,601
531 CALIF STATE COLLEGE AT SAN BERNARDINO	0	118	66	52
532 CALIF STATE UNIV AT DOMINGUEZ HILLS	0	616	489	127
533 CALIF STATE UNIV AT LOS ANGELES	0	1,149	462	687
534 CALIF STATE UNIV AT LONG BEACH	0	1,751	188	1,563
535 CALIF STATE UNIV AT HAYWARD	0	600	158	442
536 CALIF STATE UNIV AT FULLERTON	0	1,353	177	1,176
537 CALIFORNIA LUTHERAN COLLEGE	0	37	2	35
538 BIOLA UNIVERSITY	0	188	123	65
539 FAIRLEIGH DICKINSON UNIVERSITY	0	1,275	265	1,010
540 AZUSA PACIFIC UNIVERSITY	0	104	94	10
TOTAL, 1ST 540 INSTS.	20,829	394,891	256,123	138,768
541 UNIVERSITY OF BALTIMORE	0	238	39	199
542 WICHITA STATE UNIVERSITY	0	774	319	455
543 SOUTHERN UNIVERSITY A & M COLLEGE	0	70	37	33
544 TOWSON STATE UNIVERSITY	0	396	84	312
545 NEW YORK INSTITUTE OF TECHNOLOGY	0	920	245	675
546 PACE UNIVERSITY	0	1,664	318	1,348
547 RUSSELL SAGE COLLEGE	0	610	51	559
548 CHEYNEY UNIVERSITY OF PENNSYLVANIA	0	5	2	3
549 SOUTHEASTERN LOUISIANA UNIVERSITY	0	15	11	4
550 ANTIOCH UNIVERSITY	0	965	950	15
TOTAL, 1ST 550 INSTS.	20,829	400,550	258,179	142,371

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TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
551 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0
552 NORTHWESTERN STATE UNIV OF LOUISIANA	0	242	89	153
553 NORTHEAST LOUISIANA UNIVERSITY	0	174	115	59
554 HENDERSON STATE UNIVERSITY	0	17	6	11
555 MCNEESE STATE UNIVERSITY	0	108	36	72
556 UNIVERSITY OF CENTRAL ARKANSAS	0	130	84	46
557 MANSFIELD UNIVERSITY OF PENNSYLVANIA	0	12	10	2
558 LOYOLA UNIVERSITY IN NEW ORLEANS	0	2	0	2
559 INDIANA UNIVERSITY OF PENNSYLVANIA	0	163	109	54
560 SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	0	248	66	182
TOTAL, 1ST 560 INSTS.	20,829	401,646	258,694	142,952
561 WASHBURN UNIVERSITY OF TOPEKA	0	33	8	25
562 NICHOLLS STATE UNIVERSITY	0	25	22	3
563 SLIPPERY ROCK UNIVERSITY OF PENNSYLVANIA	0	6	6	0
564 THE WRIGHT INSTITUTE	0	195	163	32
565 UNIVERSITY OF NORTHERN IOWA	0	75	51	24
566 TROY STATE UNIVERSITY AT MONTGOMERY	0	110	65	45
567 GOVERNORS STATE UNIVERSITY	0	632	70	562
568 EMPORIA STATE UNIVERSITY - KANSAS	0	231	112	119
569 CLARION UNIVERSITY OF PENNSYLVANIA	0	45	20	25
570 SAMFORD UNIVERSITY	0	11	5	6
TOTAL, 1ST 570 INSTS.	20,829	403,009	259,216	143,793
571 SANGAMON STATE UNIVERSITY	0	709	169	540
572 JACKSONVILLE STATE UNIVERSITY	0	102	28	74
573 UNIVERSITY OF NORTH ALABAMA	0	10	0	10
574 UNIVERSITY OF WISCONSIN - OSHKOSH	0	229	85	144
575 FLORIDA INTERNATIONAL UNIVERSITY	0	27	7	20
576 ALABAMA STATE UNIVERSITY	0	19	13	6
577 UNIVERSITY OF MONTEVALLO	0	20	14	6
578 PITTSBURG STATE UNIVERSITY	0	215	86	129
579 MARYWOOD COLLEGE	0	500	134	366
580 CALIF SCH OF PROF PSYCH - BERKELEY	0	300	300	0
TOTAL, 1ST 580 INSTS.	20,829	405,140	260,052	145,088
581 SUNY STATE COLLEGE OF OPTOMETRY	0	7	4	3
582 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	0	137	29	108
583 CALIF SCH OF PROF PSYCH - LOS ANGELES	0	266	249	17
584 BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	0	86	43	43
585 FORT HAYS STATE UNIVERSITY	0	200	93	107
586 CALIFORNIA UNIVERSITY OF PENNSYLVANIA	0	60	26	34
587 UNIVERSITY OF SAN DIEGO	0	90	35	55
588 RAND GRADUATE INSTITUTE POLICY STUDIES	0	60	36	24
589 MIDWEST COLLEGE OF ENGINEERING	0	11	0	11
590 UNION OF EXPERIMENTNG COLLEGES & UNIVS	0	333	333	0
TOTAL, 1ST 590 INSTS.	20,829	406,390	260,900	145,490
591 CALIF SCH OF PROF PSYCH - SAN DIEGO	0	322	236	86
592 CORPUS CHRISTI STATE UNIVERSITY	0	303	47	256
593 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0
594 NATIONAL UNIVERSITY	0	335	268	67
595 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	0	644	316	328
596 LOYOLA MARYMOUNT UNIVERSITY	0	335	199	136
597 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	0	943	222	721
598 AMERICAN TECHNOLOGICAL UNIVERSITY	0	128	68	60
599 CALIF SCH OF PROF PSYCH - FRESNO	0	177	116	61
600 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	0	159	86	73
TOTAL, 1ST 600 INSTS.	20,829	409,736	262,458	147,278

CONTINUED ON NEXT PAGE.

TABLE E-12. — INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1983

- CONTINUED

INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
401	EAST STROUDSBURG UNIV OF PENNSYLVANIA	0	37	12	25
402	ITHACA COLLEGE	0	34	24	10
403	MANHATTAN COLLEGE	0	354	123	231
404	CUNY COLLEGE OF STATEN ISLAND ST GEORGE	0	11	1	10
405	MARIST COLLEGE	0	53	24	29
406	CARIBBEAN CTR FOR ADV STD	0	358	210	148
407	THE FIELDING INSTITUTE	0	380	380	0
408	NEW SCHOOL FOR SOCIAL RESEARCH	0	1,726	302	1,424
409	UNIVERSITY OF ALASKA AT ANCHORAGE	0	168	44	124
410	UNIVERSITY OF ALASKA SOUTHEAST	0	45	13	32
	TOTAL, 1ST 410 INSTS.	20,829	412,902	263,591	149,311
611	UNIVERSITY OF THE DISTRICT OF COLUMBIA	0	130	61	69
612	UNIVERSITY OF TEXAS AT TYLER	0	157	15	142
613	NIAGARA UNIVERSITY	0	13	8	5
614	PACIFIC GRAD SCHOOL OF PROF PSYCH	0	178	37	141
615	CHICAGO SCHOOL OF PROF PSYCH	0	110	71	39
616	PONCE SCHOOL OF MEDICINE	0	0	0	0
617	PRATT INSTITUTE	0	74	17	57
	TOTAL, 1ST 617 INSTS.	20,829	413,564	263,800	149,764

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

section iv

instructions, survey instruments, and summaries

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NSF FORM 811
NOVEMBER 1983

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE SCIENCE AND ENGINEERING STUDENTS AND POSTDOCTORATES, FALL 1983

FORM APPROVED
OMB NO. 3145-0082
APP. EXP. 12/31/86

INSTRUCTIONS FOR SURVEY COORDINATOR

INSTITUTION: 003367-0-0 ST JOSEPH'S UNIVERSITY

1. Please review the list of departments and programs printed on the following pages for accuracy and completeness. Please add any newly formed graduate science or engineering departments or programs in the spaces provided at the end of the departmental/program list and note any name changes or reorganizations where they occur.

2. Please cross out any discontinued or non-science programs on the departmental/program list. Those which do not have graduate students or postdoctorates in fall 1983 but may have them in the future should NOT be crossed out; a check in column (6) of the departmental/program list can be used in place of a Form 812 for such departments/programs.

3. A Crosswalk, listing relevant fields of science/engineering is enclosed, showing the 3-digit NSF code and comparable NCES discipline codes for each. Please review the first 3 digits of the codes in column (2) of the departmental/program list to verify the discipline to which each department or program has been assigned. If you do not agree with this code, note the discipline code to which your department or program most closely corresponds.

4. IN MEDICAL SCHOOLS ONLY, departments or programs followed by a single asterisk (*) include the indented sections or specialties listed beneath them. These sections or specialties may be without organizational autonomy; however, separate data are requested because of special NIH interest in these areas. Please be sure that no duplicate data are reported for the sections/specialties and their parent programs.

5. Please distribute the enclosed Forms 812 to all listed and newly formed departments or programs if data cannot be obtained from your centralized files. Definitions for all data items requested are provided on the Forms 812. Please follow these guidelines when completing the forms.

6. Please review the Forms 812 for completeness and reporting consistency and verify or supply the highest degree program offered by each department or program. Please check this year's data against the previous year's data shown on the departmental/program list and indicate the validity of large year-to-year shifts in the "Notes and Comments" section below or on the individual Forms 812.

7. Please exclude from your response all graduate departments in the fields of education, law, humanities, music, the arts, physical education, library sciences, and all other non-science fields.

8. Please return one copy of Form 811 (this form) along with one copy of each of the completed Forms 812 by FEBRUARY 10, 1984. Please use the franked envelope provided and return to:

   Universities and Nonprofit Institutions
   Studies Group
   Room L-602
   National Science Foundation
   1800 G Street, N.W.
   Washington, D.C. 20550

9. Care should be taken to submit as complete and accurate a report as possible so that follow-up procedures with your institution can be reduced to a minimum and more timely statistics can be made available. If there are any questions concerning your response, please call Cathy Joseph or Diane Stoner at (617) 492-7100. Thank you.

SURVEY COORDINATOR:

NAME: DR F GRAHAM LEE
TITLE: CHAIRMAN, DEPT OF CHEMISTRY
ADDRESS: ST JOSEPH'S UNIVERSITY
5600 CITY AVENUE
PHILADELPHIA, PENNSYLVANIA 19131

TELEPHONE: 215 879-7780

SIGNATURE OF SURVEY COORDINATOR

DATE COMPLETED

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NOTES AND COMMENTS:

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NSF FORM 811
NOVEMBER 1983

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE SCIENCE AND ENGINEERING STUDENTS AND POSTDOCTORATES, FALL 1983

FORM APPROVED
OMB NO. 3145-0062
APP. EXP. 12/31/86

LIST OF DEPARTMENTS AND PROGRAMS

INSTITUTION: 003067-0-0 ST JOSEPH'S UNIVERSITY

1982 RESPONSE CODE**	DEPARTMENT CODE ***	SCIENCE OR ENGINEERING DEPARTMENTS OR PROGRAMS	DEPARTMENTAL DEGREE LEVEL	REPORTED FOR FALL 1982: FULL TIME	PART TIME	POST-DOCS.	CHECK HERE IF NO STUDENTS AND NO POSTDOCTORATES
(1)	(2)	(3)	(4)		(5)		(6)
1	20201-8	CHEMISTRY	MASTER'S	5	39	0	____
		TOTAL, ALL DEPARTMENTS OR PROGRAMS		5	39	0	

ADDITIONAL DEPARTMENTS OR PROGRAMS FOR FALL 1983:
(Please fill in columns 3, 4, and, if applicable, column 6. Please indicate in column 2 the NSF discipline code you feel is most appropriate, or provide a brief description of the department/program's major area of concentration.)

_____	_____	_____	____
_____	_____	_____	____
_____	_____	_____	____
_____	_____	_____	____

** 1982 RESPONSE CODE MEANINGS:

1 - RESPONDED

*** THE FIRST THREE DIGITS OF THE DEPARTMENT CODE ARE A FIELD OF SCIENCE CODE; A LIST OF THESE CODES IS ENCLOSED.

Note: This information is solicited under the authority of the National Science Foundation Act of 1950 as amended. All information you provide will be used for statistical purposes only. Your response is entirely voluntary and your failure to provide some or all of the information will in no way adversely affect your institution.

INSTRUCTIONS FOR SURVEY OF GRADUATE SCIENCE AND ENGINEERING STUDENTS AND POSTDOCTORATES, FALL 1983

General Definitions

A *graduate science/engineering (S/E) student* is defined as a student enrolled for credit in an advanced-degree program leading to either a master's or Ph.D. degree in fall 1983. M.D., D.V.M., or D.D.S. candidates, interns, and residents should *not* be reported *unless* they are concurrently working for a master's or Ph.D. in a science or engineering field or are enrolled in a joint M.D./Ph.D. program. Individuals who already hold an M.D., D.V.M., or D.D.S., master's or Ph.D. degree but who are working on *another master's or Ph.D. degree are to be counted as graduate students, either full or part time. Do not* report such individuals as postdoctorates in item 8.

Graduate S/E students performing thesis or dissertation research away from the campus at Government and contractor-owned facilities in the United States are to be included as long as they are enrolled for credit in an advanced-degree program. Students enrolled at a branch or extension center in a foreign country are to be *excluded*.

A graduate S/E student, whether full- or part-time, should be reported in only one department. If any students are in interdisciplinary programs, please be sure that they are counted only once by their "home" department. If a graduate student is enrolled in an inter-institutional program, please report the student only if the degree will be granted by your institution. Please report in terms of headcounts, *not* in full-time-equivalent (FTE) terms. Please do not report decimals or fractions. If data are unavailable or unknown, write "unavailable" or "unknown" in the blank. "N/A" means "not applicable" on this form.

Item Instructions and Definitions

HIGHEST DEGREE OFFERED, item 4: Check the item which refers to the *highest* degree program offered by this science/engineering department in fall 1983. If your department does not offer a graduate degree, but is a department of clinical medicine with or without postdoctorates, check (3).

FULL-TIME GRADUATE S/E STUDENTS, item 5: A full-time graduate student is defined as a student enrolled for credit in an advanced-degree program (not a regular staff member or a postdoctorate) who is engaged full time in training activities in his/her field of science/engineering; these activities may embrace any appropriate combination of study, teaching, and research, depending on *your institution's own policy*. If your department has no full-time graduate students, write "None" in item 5 and move to item 6.

MECHANISMS OF SUPPORT, item 5, lines (1)-(5): Report each full-time graduate S/E student *only once* according to the source of the largest amount of support received in the fall of 1983. Students receiving *equal* amounts of support from two or more sources should be reported only once, under one of the sources. Students who receive *fellowships* or *traineeships* should be reported on line (1) or (2) respectively, if either of these mechanisms constitute the largest source of his/her support. The Federal Interagency Committee on Education (FICE) differentiates between the two *fellowship and traineeship* stipends as follows: 1) A fellowship is an award made directly to or on behalf of a student selected in a competition, usually national in scope, to enable him to pursue post-baccalaureate training, and 2) a traineeship is an educational award to a student selected by his university. Except for the student selection process, the terms and conditions of the two types of awards are generally identical. A student receiving his/her main support from an assistantship should be classified as a research assistant on line (3) or as a teaching assistant on line (4), depending on how he/she spends the majority of his/her time, e.g., a graduate assistant devoting most of his/her time to teaching should be classified as a graduate teaching assistant. All other full-time graduate students, including members of the armed forces whose tuition is paid by the Department of Defense, should be reported on line (5).

STUDENTS RECEIVING FINANCIAL ASSISTANCE, item 5, columns (A) through (H): Report the number of full-time graduate S/E students in the appropriate column according to the source of the largest portion of their support. To determine the source, consider only tuition and other academic expenses. If a graduate student receives equal support from more than one source, report student under only one source.

FEDERAL SOURCES, columns (A) through (E): Report the number of full-time graduate S/E students in the appropriate column where they receive the largest portion of their support. Full-time graduate S/E students receiving the largest portion of their support from Federal Government *loans* should be reported as *self-supported*, column (I).

Department of Defense (DOD), column (A): Report full-time graduate S/E students receiving support from the Department of the Army, Navy, or Air Force. Students receiving their main support from the Veterans Administration under the G.I. Bill should be reported under column (E) "Other Federal Sources"; if this form of support does not constitute his/her *main* source, the student should be counted in the appropriate column representing that source.

Department of Health and Human Services (HHS), columns (B) and (C): Report full-time graduate students receiving support from the institutes or divisions of the **National Institutes of Health (NIH)** under column (B); support from all other components of HHS should be reported under column (C), as indicated below:

National Institutes of Health, report in column (B):
- Division of Research Resources
- National Cancer Institute
- National Eye Institute
- National Heart, Lung, and Blood Institute
- National Institute on Aging
- National Institute of Allergy and Infectious Diseases
- National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases
- National Institute of Child Health and Human Development
- National Institute of Dental Research
- National Institute of Environmental Health Sciences
- National Institute of General Medical Sciences
- National Institute of Neurological and Communicative Disorders and Stroke
- National Library of Medicine

Other HHS, report in column (C):
- Alcohol, Drug Abuse, and Mental Health Administration (including National Institute of Mental Health)
- Center for Disease Control
- Food and Drug Administration
- Health Resources Administration
- Health Services Administration
- Office of Human Development

Other Federal sources, column (E): Report the number of full-time graduate S/E students receiving support from all other Federal agencies, including the Department of Education.

NON-FEDERAL SOURCES, columns (F) through (H):

Institutional support, column (F): Report full-time graduate S/E students receiving support from your own institution, including those supported through tuition waivers, and by State and local governments. Students supported by funds given to a university by the Federal Government, such as training grant funds, should be reported under the appropriate Federal agency and NCT reported as *institutional support.*

Foreign sources, column (G): Include support from any non-U.S. source.

Other U.S. sources, column (H): Include support from nonprofit institutions, private industry, and all other U.S. sources.

SELF-SUPPORTED STUDENTS, column (I): Include full-time graduate S/E students whose main source of support is derived from loans from any source and from personal or family financial contributions. Full-time graduate S/E students receiving the largest portion of their support from Federal loans should be reported here. Note that these students should be included in the total, column (J). Foreign *self-supported* students are to be reported here, also.

Women, line (7): Report all women S/E students by their source of main support. Please note that in each column, data on line (7) should not exceed the total on line (6).

First-year students, lines (8) and (9): A first-year student is defined as one who will have completed *less than a full year* of graduate study as of the beginning of the fall term in 1983 *in the S/E program in which he/she is enrolled for a degree.* All other graduate S/E students should be considered beyond their first year.

PART-TIME GRADUATE S/E STUDENTS, item 6: A part-time graduate student is defined as a student who is enrolled in an advanced-degree program who is NOT pursuing graduate work full time as defined in item 5. Report the *total* number of part-time graduate students on line (1); if a department has no part-time graduate students, enter "None" and move to item 7.

CITIZENSHIP AND RACIAL/ETHNIC BACKGROUND, item 7: Racial/ethnic designations as used in this survey do not denote scientific definitions of anthropological origins; a graduate student may thus be included in the group to which he/she appears to belong, identifies with, or is regarded in the community as belonging. No person should be counted in more than one racial/ethnic group, however, and only those with U.S. citizenship should be reported in columns (A) through (F).

On line (1), report the total number of full-time S/E graduate students under the appropriate racial/ethnic category. The total for each line should equal the sum of columns (A) through (G). The total for full-time enrollment shown in item 7 should match the total shown in item 5; similarly, the part-time total shown in item 7 should equal the total in item 6.

The following racial/ethnic designations are those defined by the Office of Civil Rights:

U.S. CITIZENS: columns (A) through (E):

Black, non-Hispanic, column (A): Report persons having origins in any of the black racial groups (except those of Hispanic origin).

American Indian or Alaskan Native, column (B): Report persons having origins in any of the original peoples of North America.

Asian or Pacific Islander, column (C): Report persons having origins in any of the original peoples of the Far East, Southeast Asia, or the Pacific Islands. These areas include China, Japan, Korea, the Philippine Islands, and Samoa.

Hispanic, column (D): Report persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

White, non-Hispanic, column (E): Report persons having origins in any of the original peoples of Europe, North Africa, the Middle East or the Indian subcontinent, except those of Hispanic origin.

OTHER AND UNKNOWN, column (F): If department records are not complete as to racial/ethnic origin of some graduate students, please report in column (F) those students with U.S. citizenship whose origins are not listed in item 7, as well as those whose origins are unknown.

FOREIGN, column (G): Please report all foreign students, whether nonresident alien or holding a permanent visa, in column (G). A *foreign* graduate student is defined as an individual who has not attained U.S. citizenship. Do not include native residents of a U.S. possession, such as American Samoa. Applicants for U.S. citizenship are to be considered as foreign until the date their citizenship becomes effective.

POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF, item 8: Include as **postdoctorates** those individuals with science or engineering Ph.D.'s, M.D.'s, D.D.S.'s, or D.V.M.'s (including foreign degrees that are equivalent to U.S. doctorates) who devote *their primary effort to research* activities or study in the department under temporary appointments carrying no academic rank. Such appointments are generally for a *specific time period.* They may contribute to the academic program through seminars, lectures, or working with graduate students. Their postdoctoral activities provide additional training for them. **Exclude** clinical fellows and those with appointments in residency training programs in medical and health professions, unless *research training* under the supervision of a *senior mentor* is the *primary purpose* of the appointment.

On line (1), under columns (A) and (B), enter the number of fellows and trainees receiving support under Federal fellowships and/or training grants. Under column (C) enter the number of postdoctorates who are receiving federally supported research grants. Those remaining postdoctoral appointees receiving non-Federal support should be entered under column (D). Of the *total* in column (E), enter in column (F) the number of postdoctorates who are foreign.

Under **other non-faculty doctoral research staff,** column (G), report all doctoral scientists and engineers who are principally involved in research activities but who are considered *neither* postdoctoral appointees nor members of the *regular* faculty. In column (H), report the total of columns (E) and (G).

On line (2), report the number of women in each category. On line (3) report those postdoctorates and non-faculty doctoral research staff who hold first professional medical degrees (M.D., D.D.S., D.V.M., etc.). Please note that in each column, data on lines (2) and (3) should not exceed the total on line (1).

FULL-TIME S/E FACULTY, items 9 through 11: Include all full-time S/E faculty in your department regardless of whether they instruct graduate or undergraduate students. Please note that while items 5 through 9 and 12 request data for fall 1983, items 10 and 11 request data on faculty present during the *1982/83* academic year.

In item 9, include all ranks from instructor to professor. Include full-time members of your department who are on sabbatical leave away from your institution. Persons with joint appointments who work part of their time in another department should be treated as follows: Those working more than one-half their time in this department should be included here; those working less than one-half time in this department should be included in the other department; if they work exactly half time in each, please consult with the chairperson of the other department as to which one will include the appointee. Please DO NOT include the following as full-time faculty: Visiting professors, postdoctorates, research associates, graduate assistants, or others who are not regular FULL-TIME S/E FACULTY in this department. The data reported in column (D) are a subset of the non-tenured personnel reported in column (B).

In item 10, include all full-time S/E faculty that your department appointed for service to begin during the academic year 1982/83. How many of these new appointees held full-time faculty or staff appointments in another academic institution immediately prior to their joining your department? What tenure status were they given in your department at the time of their appointments?

In item 11, include all members of this department who held full-time S/E faculty appointments in September 1982 and left the department between September 1, 1982, and August 31, 1983, for one of the reasons listed. (*Count each person only once; in case of multiple reasons, choose the one in your opinion that was most important.*)

NON-FACULTY S/E DOCTORAL RESEARCH STAFF, item 12: Include persons employed by the department in fall 1983 in a professional capacity specifically for research activities, who hold S/E doctorates on the date this survey form is filled out, who do not have a faculty appointment, and who are not postdoctorates. (The total in column (C) should be the same as reported in item 8, column (G), line (1).)

UPON COMPLETING THIS FORM, PLEASE RETURN IT TO YOUR SURVEY COORDINATOR.

NSF Form 812, Aug. 83

NATIONAL SCIENCE FOUNDATION and NATIONAL INSTITUTES OF HEALTH

Survey of Graduate Science and Engineering Students and Postdoctorates, Fall 1983

Form Approved
OMB No. 3145-0062
Appr. exp. 12/31/86

DEPARTMENTAL OR PROGRAM DATA SHEET

Before filling out, please read the instructions. Upon completion, return form to your survey coordinator.

1. Name and address of institution: _____

2. Name of science or engineering department (or program) covered by this data sheet: _____

3. Person in department (or program) preparing this form:

   Name: _____

   Title: _____ Phone: ( )

4. Highest degree offered by department or program in fall 1983 (CHECK ONE ONLY) Doctorate _____(1) Master's _____(2) No graduate degree offered _____(3)

(LEAVE BLANK)

Response code ..... ☐

Institution and department code

If your department or program does not enroll graduate students, please move to item 6 below. For identification of S/E fields classification, see your coordinator's NSF/NCES "Crosswalk." If data are unavailable or unknown, write "unavailable" or "unknown" in the blank. "N/A" means "not applicable" on this form.

5. Number of FULL-TIME GRADUATE S/E STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1983

MECHANISMS OF SUPPORT		STUDENTS RECEIVING FINANCIAL ASSISTANCE								SELF-SUPPORTED STUDENTS (Including loans and family sources) (I)	TOTAL FOR ALL SOURCES (Sum of (A) thru (I)) (J)
		FEDERAL SOURCES (excluding loans)					NON-FEDERAL SOURCES				
		Department of Defense (A)	HHS: National Institutes of Health (B)	HHS: Other HHS (C)	National Science Foundation (D)	Other Federal sources (E)	Institutional support[1] (F)	Foreign sources (G)	Other U.S. sources[2] (H)		
Graduate Fellowships	(1)										
Graduate Traineeships	(2)										
Graduate Research Assistantships	(3)										
Graduate Teaching Assistantships	(4)										
Other Types of Support	(5)										
FULL-TIME TOTAL	(6)										
For each total on line (6) how many are WOMEN?	(7)										

FIRST-YEAR STUDENTS	(8)	Of the full-time graduate students on line (6), column (J), how many are FIRST-YEAR students?	
FIRST-YEAR WOMEN STUDENTS	(9)	Of the full-time FIRST-YEAR graduate students on line (8), how many are WOMEN?	

[1] Include support from this university and State and local governments. [2] Include support from nonprofit institutions, industry, and all other U.S. sources.

6. Number of PART-TIME GRADUATE S/E STUDENTS, FALL 1983

PART-TIME TOTAL	(1)	
Of the part-time total on line (1), how many are WOMEN?	(2)	

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7. RACIAL/ ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS, FALL 1983	Of the graduate student totals in items 5 and 6, how many belong to the following racial/ethnic categories?		U.S. CITIZENS ONLY						FOREIGN	TOTAL
			Black non-Hispanic (A)	Amer. Indian/ Alaskan Native (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	(G)	(sum of (A) thru (G)) (H)
	Full time, column (H), should equal item 5, line (6), column (J)	(1)								
	Part time, column (H), should equal item 6, line (1)	(2)								

Is Racial/Ethnic Background data available at department level?_____ If not, where available?_____

8. Number of S/E POSTDOCTORATES and NON-FACULTY DOCTORAL RESEARCH STAFF, FALL 1983. (Include those affiliated with this department as well as those employed in associated academic research units. Exclude clinical fellows and residents not involved in research.)		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (Sum of (E) and (G))
		SOURCE OF SUPPORT				TOTAL for all sources (A) thru (D)	Of the total in (E), how many are FOREIGN?		
		Federal			Non-Federal				
		Fellowships (A)	Traineeships (B)	Research grants (C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)								
Of the total in each cell of line (1), how many are WOMEN?	(2)								
Of the total in each cell of line (1), how many hold the M.D., D.D.S., or D.V.M. degree?	(3)								

9. RANK AND TENURE STATUS OF FULL-TIME S/E FACULTY, Fall 1983					
Academic rank		Tenured (A)	Non-tenured (B)	TOTAL (C)	Of those in column (B), how many are in tenure track? (D)
Professor	(1)				
Associate professor	(2)				
Assistant professor	(3)				
Other ranks	(4)				
Non-ranked	(5)				
Total	(6)				

10. FULL-TIME S/E FACULTY APPOINTMENTS during academic year 1982/83				
Appointments		Tenure status as of date of appointment		TOTAL
		Tenured (A)	Non-tenured (B)	(C)
Total	(1)			
Of those in line (1) above, how many joined your department from full-time faculty or staff positions in another academic institution? (Do not report transfers within your institution).	(2)			

11. FULL-TIME S/E FACULTY DEPARTING during academic year 1982/83				
Reason for leaving		Tenure status of full-time S/E faculty leaving		Total
		Tenured (A)	Non-tenured (B)	(C)
Retirement, illness, or death	(1)			
Voluntary resignation for another academic position	(2)			
Voluntary resignation for a position in business or industry	(3)			
Voluntary resignation for other reasons	(4)			
Failure to receive tenure	(5)			
Involuntary resignation for other reasons	(6)			
Total	(7)			

12. OTHER NON-FACULTY S/E DOCTORAL RESEARCH STAFF, fall 1983		
Number receiving doctorates before fall 1976 (A)	Number receiving doctorates in fall 1976 or later (B)	TOTAL See item 8, column (G), line (1) (C)

Check List

- ☐ 1. Do all entries reflect headcounts and NOT FTE's?
- ☐ 2. Do the data in items 5, 7, and 8 add to totals?
- ☐ 3. Have you included all self-supported full-time graduate S/E students in item 5, column (I)? Note that self-supported students should also be included in the total, column (J).
- ☐ 4. Have you excluded M.D., D.D.S., and D.V.M. candidates, interns, and residents (except those enrolled in joint programs with the Ph.D.) from items 5, 6, and 7?
- ☐ 5. Does item 5, line (6), column (J) equal item 7, line (1), column (H)?
- ☐ 6. Does item 6, line (1) equal item 7, line (2), column (H)?
- ☐ 7. Is item 9, column (D) equal to or less than item 9, column (B)?
- ☐ 8. Does item 12, column (C) equal item 8, column (G), line (1)?

Approximately how many personhours were required to complete this form? ☐

Comments (including explanations of any variances from prior year's data):

_____

_____

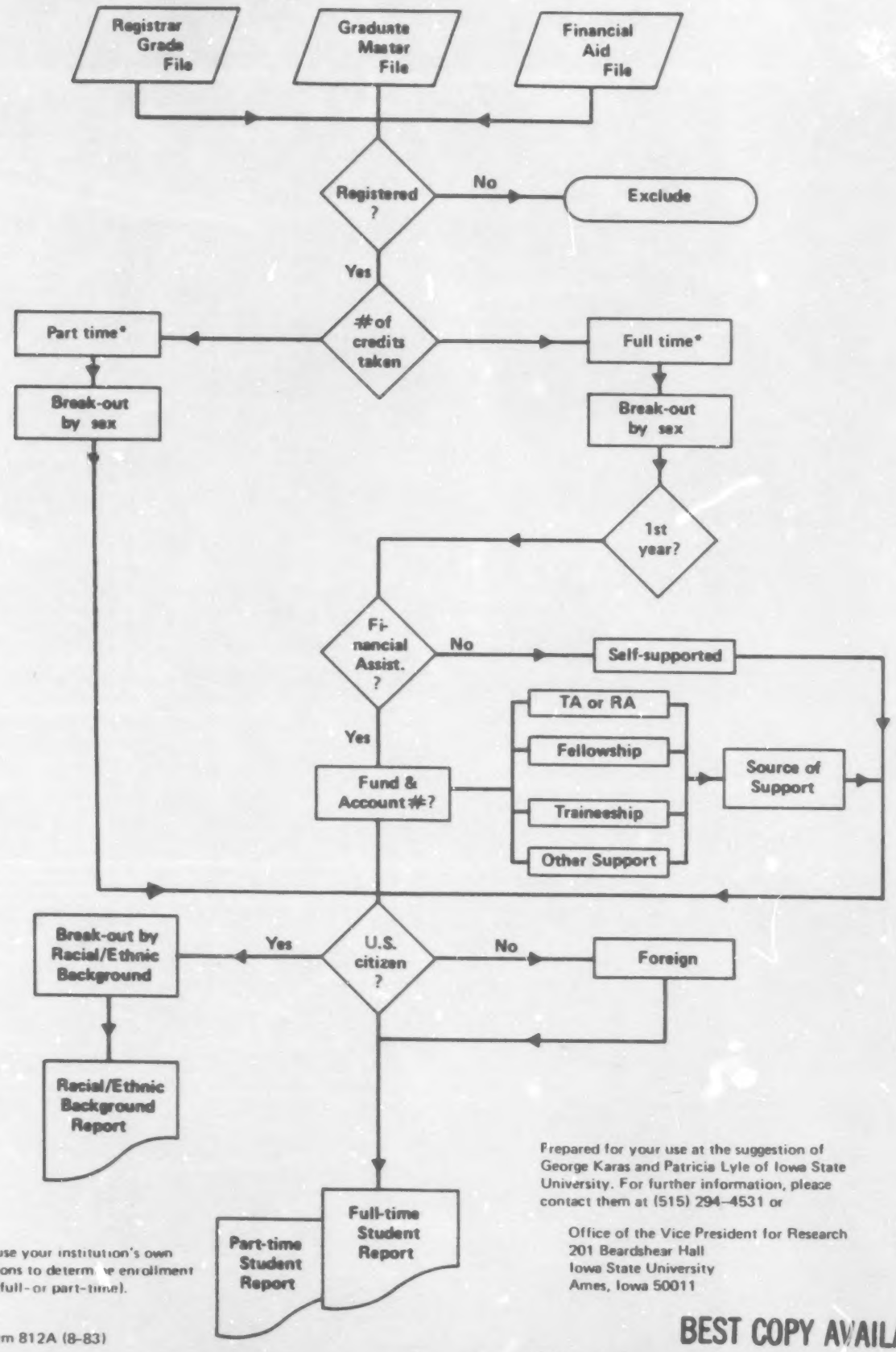
_____

_____

NOTE: This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information you provide will be used for statistical purposes only. Your response is entirely voluntary and your failure to provide some or all of the information will in no way adversely affect your institution.

FLOW CHART
NSF SURVEY OF GRADUATE SCIENCE AND ENGINEERING STUDENTS AND POSTDOCTORATES

Institutions that automate NSF survey data, or plan to--or even engage in manual data processing--may be assisted in tabulating enrollment data (items 5-7 on form 812) by this chart.



*Please use your institution's own definitions to determine enrollment status (full- or part-time).

Prepared for your use at the suggestion of George Karas and Patricia Lyle of Iowa State University. For further information, please contact them at (515) 294-4531 or

Office of the Vice President for Research
201 Beardshear Hall
Iowa State University
Ames, Iowa 50011

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SURVEY OF GRADUATE SCIENCE AND ENGINEERING STUDENTS AND POSTDOCTORATES

CROSSWALK BETWEEN NSF DISCIPLINE CODES AND THE NCES CLASSIFICATION OF INSTRUCTIONAL PROGRAMS

The following set of discipline codes is used to categorize science and engineering departments in this Survey. Representative department names are shown under each of the discipline codes.

ENGINEERING

101 AEROSPACE ENGINEERING
- 14.02 AEROSPACE, AERONAUTICAL, AND ASTRONAUTICAL ENGINEERING

102 AGRICULTURAL ENGINEERING
- 14.03 AGRICULTURAL ENGINEERING

103 BIOMEDICAL ENGINEERING
- 14.05 BIOENGINEERING AND BIOMEDICAL ENGINEERING

104 CHEMICAL ENGINEERING
- 03.0406 PULP AND PAPER PRODUCTION
- 03.0509 WOOD SCIENCE
- 14.07 CHEMICAL ENGINEERING

105 CIVIL ENGINEERING
- 04.02 ARCHITECTURE
- 14.04 ARCHITECTURAL ENGINEERING
- 14.08 CIVIL ENGINEERING
- 14.14 ENVIRONMENTAL HEALTH ENGINEERING

106 ELECTRICAL ENGINEERING
- 14.09 COMPUTER ENGINEERING
- 14.10 ELECTRICAL, ELECTRONICS, AND COMMUNICATIONS ENGINEERING

107 ENGINEERING SCIENCE
- 14.12 ENGINEERING PHYSICS
- 14.13 ENGINEERING SCIENCE

108 INDUSTRIAL ENGINEERING/MANAGEMENT SCIENCE
- 14.17 INDUSTRIAL ENGINEERING
- 14.27 SYSTEMS ENGINEERING
- 30.06 SYSTEMS SCIENCE

109 MECHANICAL ENGINEERING
- 14.11 ENGINEERING MECHANICS
- 14.19 MECHANICAL ENGINEERING

110 METALLURGICAL AND MATERIALS ENGINEERING
- 14.06 CERAMIC ENGINEERING
- 14.18 MATERIALS ENGINEERING
- 14.20 METALLURGICAL ENGINEERING
- 40.0701 METALLURGY

111 MINING ENGINEERING
- 14.15 GEOLOGICAL ENGINEERING
- 14.16 GEOPHYSICAL ENGINEERING
- 14.21 MINING AND MINERAL ENGINEERING

112 NUCLEAR ENGINEERING
- 14.23 NUCLEAR ENGINEERING

113 PETROLEUM ENGINEERING
- 14.25 PETROLEUM ENGINEERING

114 ENGINEERING, N.E.C.
- 14.01 ENGINEERING, GENERAL
- 14.22 NAVAL ARCHITECTURE AND MARINE ENGINEERING
- 14.24 OCEAN ENGINEERING
- 14.28 TEXTILE ENGINEERING
- 14.99 ENGINEERING, OTHER
- 19.0901 TEXTILE AND CLOTHING
- 30.03 ENGINEERING AND OTHER DISCIPLINES

PHYSICAL SCIENCES

201 ASTRONOMY
- 40.02 ASTRONOMY
- 40.03 ASTROPHYSICS
- 40.09 PLANETARY SCIENCE

202 CHEMISTRY
- 40.05 CHEMISTRY

203 PHYSICS
- 40.08 PHYSICS

204 PHYSICAL SCIENCES, N.E.C.
- 40.01 PHYSICAL SCIENCES, GENERAL
- 40.0799 MISCELLANEOUS PHYSICAL SCIENCES, OTHER
- 40.99 PHYSICAL SCIENCES, OTHER

ENVIRONMENTAL SCIENCES

301 ATMOSPHERIC SCIENCES
- 40.04 ATMOSPHERIC SCIENCES AND METEOROLOGY

302 GEOSCIENCES
- 40.06 GEOLOGICAL SCIENCES

303 OCEANOGRAPHY
- 26.0607 MARINE BIOLOGY
- 40.0702 OCEANOGRAPHY

304 ENVIRONMENTAL SCIENCES, N.E.C.

MATHEMATICAL/COMPUTER SCIENCES

401 COMPUTER SCIENCE
- 06.12 MANAGEMENT INFORMATION SYSTEMS
- 11 COMPUTER AND INFORMATION SCIENCES, GENERAL

402 MATHEMATICS AND APPLIED MATHEMATICS
- 06.1302 OPERATIONS RESEARCH (QUANTITATIVE METHODS)
- 27.01 MATHEMATICS
- 27.03 APPLIED MATHEMATICS
- 27.04 PURE MATHEMATICS
- 27.99 MATHEMATICS, OTHER

403 STATISTICS
- 27.02 ACTUARIAL SCIENCES
- 27.05 STATISTICS

LIFE SCIENCES

501 AGRICULTURAL SCIENCES
- 01.03 AGRICULTURAL PRODUCTION
- 01.0303 AQUACULTURE
- 01.07 INTERNATIONAL AGRICULTURE
- 02 AGRICULTURAL SCIENCES
- 03 RENEWABLE NATURAL RESOURCES
- 04.06 LANDSCAPE ARCHITECTURE

601 ANATOMY
- 18.0201 CLINICAL ANATOMY
- 26.0601 ANATOMY

602 BIOCHEMISTRY
- 18.0202 CLINICAL BIOCHEMISTRY
- 26.02 BIOCHEMISTRY AND BIOPHYSICS

603 BIOLOGY
- 26.01 BIOLOGY, GENERAL
- 26.0604 EMBRYOLOGY

604 BIOMETRY AND EPIDEMIOLOGY
- 26.0602 BIOMETRICS AND BIOSTATISTICS
- 18.06 EPIDEMIOLOGY

605 BIOPHYSICS

606 BOTANY
- 26.03 BOTANY

607 CELL BIOLOGY
- 26.04 CELL AND MOLECULAR BIOLOGY
- 26.0606 HISTOLOGY

608 ECOLOGY
- 26.0603 ECOLOGY

609 ENTOMOLOGY AND PARASITOLOGY
- 26.0610 PARASITOLOGY
- 26.0702 ENTOMOLOGY

610 GENETICS
- 26.0703 GENETICS, HUMAN AND ANIMAL

611 MICROBIOLOGY, IMMUNOLOGY, AND VIROLOGY
- 18.0203 CLINICAL MICROBIOLOGY
- 18.1002 ALLERGIES AND ENDOMOLOGY
- 18.1009 IMMUNOLOGY
- 26.05 MICROBIOLOGY
- 26.0302 BACTERIOLOGY

612 NUTRITION
- 19.05 FOOD SCIENCES AND HUMAN NUTRITION
- 20.0106 FOOD AND NUTRITION
- 26.0609 NUTRITIONAL SCIENCES

613 PATHOLOGY
- 18.0204 CLINICAL PATHOLOGY
- 18.1018 PATHOLOGY
- 26.0704 PATHOLOGY, HUMAN AND ANIMAL

614 PHARMACOLOGY
- 18.23 TOXICOLOGY (CLINICAL)
- 26.0612 TOXICOLOGY
- 26.0705 PHARMACOLOGY, HUMAN AND ANIMAL
- 42.14 PSYCHOPHARMACOLOGY

615 PHYSIOLOGY
- 18.0205 PHYSIOLOGY
- 26.0706 PHYSIOLOGY, HUMAN AND ANIMAL

616 ZOOLOGY
- 26.0701 ZOOLOGY
- 26.0799 ZOOLOGY, OTHER

617 BIOSCIENCES, N.E.C.
- 26.0611 RADIOBIOLOGY
- 26.0699 MISCELLANEOUS SPECIALIZED AREAS, LIFE SCIENCES, OTHER
- 26.99 LIFE SCIENCES, OTHER

701 ANESTHESIOLOGY
- 18.1003 ANESTHESIOLOGY

702 CARDIOLOGY

703 CANCER RESEARCH/ONCOLOGY

704 ENDOCRINOLOGY
- 26.0505 ENDOCRINOLOGY

705 GASTROENTEROLOGY

706 HEMATOLOGY
- 18.08 HEMATOLOGY

707 NEUROLOGY
- 18.1024 NEUROLOGY
- 26.0506 NEUROSCIENCES

708 OBSTETRICS AND GYNECOLOGY
- 18.1013 OBSTETRICS AND GYNECOLOGY

709 OPHTHALMOLOGY
- 18.1014 OPHTHALMOLOGY
- 18.12 OPTOMETRY

710 OTORHINOLARYNGOLOGY
- 18.1017 OTORHINOLARYNGOLOGY/OTOLARYNGOLOGY

711 PEDIATRICS
- 18.1019 PEDIATRICS
- 20.0102 CHILD DEVELOPMENT, CARE, AND GUIDANCE

712 PREVENTIVE MEDICINE AND COMMUNITY HEALTH
- 18.1007 FAMILY PRACTICE
- 18.1022 PREVENTIVE MEDICINE

713 PSYCHIATRY
- 18.1023 PSYCHIATRY
- 18.1109 PSYCHIATRY/MENTAL HEALTH

714 PULMONARY DISEASE

715 RADIOLOGY
- 18.1012 NUCLEAR MEDICINE
- 18.1025 RADIOLOGY

716 SURGERY
- 18.1004 COLON AND RECTAL SURGERY
- 18.1011 NEUROLOGICAL SURGERY
- 18.1016 ORTHOPEDIC
- 18.1021 PLASTIC SURGERY
- 18.1026 SURGERY
- 18.1027 THORACIC SURGERY

717 CLINICAL MEDICINE, N.E.C.
- 18.0299 BASIC CLINICAL HEALTH SCIENCES, OTHER
- 18.1001 MEDICINE, GENERAL
- 18.1005 DERMATOLOGY
- 18.1008 GERIATRICS
- 18.1010 INTERNAL MEDICINE
- 18.1099 MEDICINE, OTHER
- 18.13 OSTEOPATHIC MEDICINE
- 18.15 PODIATRY
- 18.1020 PHYSICAL MEDICINE AND REHABILITATION
- 18.1028 UROLOGY
- 30.01 BIOLOGICAL AND PHYSICAL SCIENCES

718 DENTAL SCIENCES
- 18.04 DENTISTRY
- 18.1015 ORTHODONTIC SURGERY

719 NURSING
- 18.11 NURSING

720 PHARMACEUTICAL SCIENCES
- 18.14 PHARMACY

721 VETERINARY SCIENCES
- 18.24 VETERINARY MEDICINE

722 HEALTH RELATED, N.E.C.
- 17.0807 OCCUPATIONAL THERAPY
- 17.0813 PHYSICAL THERAPY
- 17.0899 REHABILITATION SERVICES, OTHER
- 17.99 ALLIED HEALTH, OTHER
- 18.07 HEALTH SCIENCES ADMINISTRATION
- 18.09 MEDICAL LABORATORY
- 18.22 PUBLIC HEALTH LABORATORY SCIENCE
- 18.99 HEALTH SCIENCES, OTHER

723 SPEECH PATHOLOGY AND AUDIOLOGY
- 17.0821 SPEECH-LANGUAGE PATHOLOGY/AUDIOLOGY
- 18.01 AUDIOLOGY AND SPEECH PATHOLOGY

PSYCHOLOGY

801 PSYCHOLOGY
- 13.08 SCHOOL PSYCHOLOGY
- 17.0801 ART THERAPY
- 42 PSYCHOLOGY

SOCIAL SCIENCES

901 AGRICULTURAL ECONOMICS
- 01.0103 AGRICULTURAL ECONOMICS

902 ANTHROPOLOGY
- 45.02 ANTHROPOLOGY
- 45.03 ARCHEOLOGY

903 ECONOMICS (EXCEPT AGRICULTURAL)
- 06.06 BUSINESS ECONOMICS
- 45.06 ECONOMICS

904 GEOGRAPHY
- 14.26 SURVEYING AND MAPPING SCIENCES
- 45.07 GEOGRAPHY

905 HISTORY AND PHILOSOPHY OF SCIENCE

906 LINGUISTICS
- 42.12 PSYCHOLINGUISTICS

907 POLITICAL SCIENCE
- 04.01 PUBLIC AFFAIRS, GENERAL
- 44.03 INTERNATIONAL PUBLIC SERVICE
- 44.04 PUBLIC ADMINISTRATION
- 44.05 PUBLIC POLICY STUDIES
- 44.99 PUBLIC AFFAIRS, GENERAL
- 45.09 INTERNATIONAL RELATIONS
- 45.10 POLITICAL SCIENCE AND GOVERNMENT

908 SOCIOLOGY
- 19.16 POPULATION AND FAMILY PLANNING
- 45.05 DEMOGRAPHY
- 45.11 SOCIOLOGY

909 SOCIOLOGY AND ANTHROPOLOGY

910 SOCIAL SCIENCES, N.E.C.
- 04.03 CITY, COMMUNITY AND REGIONAL PLANNING
- 05 AREAS AND ETHNIC STUDIES
- 06.06 HUMAN RESOURCES DEVELOPMENT
- 06.15 ORGANIZATIONAL BEHAVIOR
- 43.01 CRIMINAL JUSTICE
- 44.02 COMMUNITY SERVICES
- 44.07 SOCIAL WORK
- 45.01 SOCIAL SCIENCES, GENERAL
- 45.04 CRIMINOLOGY
- 45.12 URBAN STUDIES
- 45.99 SOCIAL SCIENCES, OTHER

TABLE IV-A-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 9663

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	255	580	239	1,309	1,868	10,433	3,675	3,885		22,244
GRADUATE TRAINEESHIPS (2)	84	4,555	3,323	64	1,428	3,559	366	803		14,182
GRADUATE RESEARCH ASSISTANTSHIPS (3)	3,934	5,470	552	8,072	11,218	18,578	560	7,286		55,670
GRADUATE TEACHING ASSISTANTSHIPS (4)		75	37	25	368	59,702		392		60,599
OTHER TYPES OF SUPPORT (5)	2,771	293	162	67	1,862	8,850	4,449	3,916	88,735	111,105
FULL-TIME TOTAL (6)	7,044	10,973	4,313	9,537	16,744	101,122	9,050	16,282	88,735	263,800
FULL-TIME WOMEN (7)	759	4,331	3,322	1,780	4,616	34,301	1,430	4,531	36,479	91,549
FIRST-YEAR TOTAL (8)										86,950
FIRST-YEAR WOMEN (9)										33,511

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	149,764
WOMEN (2)	61,963

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	7,476	801	6,476	6,557	168,039	11,654	62,797	263,800
PART-TIME (2)	7,011	445	4,198	4,685	108,877	12,959	11,589	149,764

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	2,480	2,606	9,987	5,756	20,829	7,554	4,936	25,765
WOMEN (2)	666	786	2,021	1,339	4,812	1,158	989	5,801
WITH MD, DDS, OR DVM DEGREES (3)	538	1,009	567	1,740	3,854	975	367	4,217

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-2. SUMMARY OF RESPONSES FROM ALL ENGINEERING DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 1219

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	98	16	30	262	382	1,680	1,004	1,416		4,888
GRADUATE TRAINEESHIPS (2)	1	100	7	1	157	310	43	196		815
GRADUATE RESEARCH ASSISTANTSHIPS (3)	2,322	352	56	2,411	3,886	3,417	92	3,164		15,700
GRADUATE TEACHING ASSISTANTSHIPS (4)		3	0	3	36	9,951		130		10,123
OTHER TYPES OF SUPPORT (5)	1,588	6	5	5	281	1,275	1,307	881	18,356	23,704
FULL-TIME TOTAL (6)	4,009	477	98	2,682	4,742	16,633	2,446	5,787	18,356	55,230
FULL-TIME WOMEN (7)	198	104	21	229	474	1,971	116	680	2,241	6,034
FIRST-YEAR TOTAL (8)										19,677
FIRST-YEAR WOMEN (9)										2,482

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	37,487
WOMEN (2)	4,200

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	668	101	1,770	790	25,218	3,634	23,049	55,230
PART-TIME (2)	751	84	1,643	708	24,533	5,106	4,662	37,487

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	36	26	705	346	1,113	694	631	1,744
WOMEN (2)	1	4	57	26	88	37	35	123
WITH MD, DDS, OR DVM DEGREES (3)	2	1	14	2	19	10	17	36

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE IV-A-3. SUMMARY OF RESPONSES FROM ALL PHYSICAL SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 666

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: HHS: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	9	26	4	201	101	994	206	404		1,945
GRADUATE TRAINEESHIPS (2)	4	109	4	7	21	164	13	43		365
GRADUATE RESEARCH ASSISTANTSHIPS (3)	734	1,289	89	2,990	2,366	997	35	651		9,151
GRADUATE TEACHING ASSISTANTSHIPS (4)		5	0	10	30	11,206		33		11,284
OTHER TYPES OF SUPPORT (5)	84	8	1	7	26	249	213	96	1,768	2,452
FULL-TIME TOTAL (6)	831	1,437	98	3,215	2,544	13,610	467	1,227	1,768	25,197
FULL-TIME WOMEN (7)	115	363	20	471	376	2,876	81	230	300	4,832
FIRST-YEAR TOTAL (8)										6,707
FIRST-YEAR WOMEN (9)										1,559

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	4,251
WOMEN (2)	1,041

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	412	40	589	486	15,439	1,012	7,219	25,197
PART-TIME (2)	162	5	159	113	3,177	206	429	4,251

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	261	25	3,481	691	4,458	2,394	759	5,217
WOMEN (2)	41	7	385	104	537	244	79	616
WITH MD, DDS, OR DVM DEGREES (3)	0	0	5	1	6	1	0	6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-4. SUMMARY OF RESPONSES FROM ALL ENVIRONMENTAL SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 339

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: HHS: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	2	6	0	88	77	314	116	270		873
GRADUATE TRAINEESHIPS (2)	0	11	26	10	30	127	22	63		289
GRADUATE RESEARCH ASSISTANTSHIPS (3)	190	8	1	1,217	928	613	43	534		3,534
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	20	2,850		16		2,886
OTHER TYPES OF SUPPORT (5)	173	0	0	8	87	354	130	99	3,618	4,469
FULL-TIME TOTAL (6)	365	25	27	1,323	1,142	4,258	311	982	3,618	12,051
FULL-TIME WOMEN (7)	51	4	10	323	283	1,172	26	222	928	3,019
FIRST-YEAR TOTAL (8)										3,776
FIRST-YEAR WOMEN (9)										1,020

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	3,574
WOMEN (2)	954

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	82	24	158	144	9,262	704	1,677	12,051
PART-TIME (2)	29	3	85	81	3,077	122	177	3,574

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	10	4	304	101	419	159	301	720
WOMEN (2)	2	1	45	14	62	13	21	83
WITH MD, DDS, OR DVM DEGREES (3)	0	0	5	4	9	2	6	15

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE IV-A-5. SUMMARY OF RESPONSES FROM ALL COMPUTER SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 192

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	16	1	0	42	16	192	78	142		487
GRADUATE TRAINEESHIPS (2)	0	7	0	0	2	39	0	2		50
GRADUATE RESEARCH ASSISTANTSHIPS (3)	313	16	3	338	169	370	3	187		1,403
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	3	2	2,382		25		2,412
OTHER TYPES OF SUPPORT (5)	142	2	0	3	51	233	177	220	5,498	6,326
FULL-TIME TOTAL (6)	475	26	3	386	240	3,216	258	576	5,498	10,678
FULL-TIME WOMEN (7)	43	2	0	49	39	799	57	123	1,531	2,643
FIRST-YEAR TOTAL (8)										3,881
FIRST-YEAR WOMEN (9)										996

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	13,165
WOMEN (2)	4,069

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	207	11	558	105	5,055	761	3,981	10,678
PART-TIME (2)	359	11	589	178	8,612	1,725	1,691	13,165

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1	7	39	35	82	45	61	143
WOMEN (2)	0	0	7	3	10	7	2	12
WITH MD, DDS, OR DVM DEGREES (3)	1	7	1	1	10	1	2	12

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-6. SUMMARY OF RESPONSES FROM ALL MATHEMATICAL SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 453

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	7	3	0	81	26	349	176	52		694
GRADUATE TRAINEESHIPS (2)	0	6	0	9	7	90	1	11		124
GRADUATE RESEARCH ASSISTANTSHIPS (3)	96	19	13	131	93	383	11	59		805
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	17	6,440		2		6,459
OTHER TYPES OF SUPPORT (5)	209	0	0	2	43	245	149	50	2,202	2,900
FULL-TIME TOTAL (6)	312	28	13	223	186	7,507	337	174	2,202	10,982
FULL-TIME WOMEN (7)	35	11	1	36	40	2,035	64	42	660	2,924
FIRST-YEAR TOTAL (8)										3,608
FIRST-YEAR WOMEN (9)										1,144

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	6,532
WOMEN (2)	2,320

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	164	12	337	205	5,593	419	4,252	10,982
PART-TIME (2)	241	21	229	127	4,787	399	728	6,532

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	27	3	53	87	170	90	125	295
WOMEN (2)	3	0	4	9	16	6	12	28
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE IV-A-7. SUMMARY OF RESPONSES FROM ALL LIFE SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 4671

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: OTHER HHS (C)	FEDERAL SOURCES (EXCLUDING LOANS): NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES (EXCLUDING LOANS): OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	77	455	99	354	425	2,577	880	809		5,676
GRADUATE TRAINEESHIPS (2)	78	3,907	2,926	30	806	1,275	213	197		9,432
GRADUATE RESEARCH ASSISTANTSHIPS (3)	162	3,393	180	762	2,810	6,846	349	2,085		16,587
GRADUATE TEACHING ASSISTANTSHIPS (4)		67	37	4	135	12,392		137		12,772
OTHER TYPES OF SUPPORT (5)	201	236	109	18	427	2,452	1,358	958	19,979	25,738
FULL-TIME TOTAL (6)	518	8,058	3,351	1,168	4,603	25,542	2,800	4,186	19,979	70,205
FULL-TIME WOMEN (7)	213	3,300	2,837	455	1,972	11,112	550	1,632	11,613	33,684
FIRST-YEAR TOTAL (8)										22,668
FIRST-YEAR WOMEN (9)										12,582

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	33,694
WOMEN (2)	23,379

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,735	222	1,698	1,807	52,579	1,734	10,430	70,205
PART-TIME (2)	1,535	123	681	814	27,527	1,580	1,434	33,694

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	2,030	2,347	5,201	4,211	13,789	3,994	2,686	16,475
WOMEN (2)	575	696	1,442	1,090	3,803	807	726	4,529
WITH MD, DDS, OR DVM DEGREES (3)	532	999	537	1,731	3,799	959	333	4,132

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-8. SUMMARY OF RESPONSES FROM ALL PSYCHOLOGY DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 530

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: OTHER HHS (C)	FEDERAL SOURCES (EXCLUDING LOANS): NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES (EXCLUDING LOANS): OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	31	34	33	90	87	852	25	120		1,272
GRADUATE TRAINEESHIPS (2)	1	242	208	4	124	683	4	102		1,368
GRADUATE RESEARCH ASSISTANTSHIPS (3)	92	316	178	91	269	1,799	2	234		2,981
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	2	52	4,961		14		5,029
OTHER TYPES OF SUPPORT (5)	50	8	5	5	221	1,553	19	814	13,419	16,114
FULL-TIME TOTAL (6)	174	600	424	192	753	9,848	70	1,284	13,419	26,764
FULL-TIME WOMEN (7)	57	345	223	93	409	5,523	37	689	7,975	15,351
FIRST-YEAR TOTAL (8)										7,863
FIRST-YEAR WOMEN (9)										4,846

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	14,370
WOMEN (2)	9,081

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,146	116	369	1,145	21,383	1,514	1,091	26,764
PART-TIME (2)	771	44	164	684	11,347	1,020	340	14,370

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	73	126	134	104	437	61	154	591
WOMEN (2)	31	53	56	39	179	20	53	232
WITH MD, DDS, OR DVM DEGREES (3)	2	2	4	1	9	2	2	11

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE IV-A-9. SUMMARY OF RESPONSES FROM ALL SOCIAL SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 1593

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	15	39	73	191	754	3,475	1,190	672		6,409
GRADUATE TRAINEESHIPS (2)	0	173	152	3	281	871	70	189		1,739
GRADUATE RESEARCH ASSISTANTSHIPS (3)	21	77	32	132	697	4,153	25	372		5,509
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	3	76	9,520		35		9,634
OTHER TYPES OF SUPPORT (5)	324	33	42	19	726	2,489	1,076	798	23,895	29,402
FULL-TIME TOTAL (6)	360	322	299	348	2,534	20,508	2,361	2,066	23,895	52,693
FULL-TIME WOMEN (7)	47	202	210	124	1,023	8,813	499	913	11,231	23,062
FIRST-YEAR TOTAL (8)										18,770
FIRST-YEAR WOMEN (9)										8,882

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	36,691
WOMEN (2)	16,919

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	3,062	275	997	1,875	33,510	1,876	11,098	52,693
PART-TIME (2)	3,163	154	648	1,980	25,817	2,801	2,128	36,691

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	42	68	70	181	361	117	219	580
WOMEN (2)	13	25	25	54	117	24	61	178
WITH MD, DDS, OR DVM DEGREES (3)	1	0	1	0	2	0	3	5

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE IV-B-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 8204

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	255	561	248	1,305	1,730	10,495	3,586	3,809		21,679
GRADUATE TRAINEESHIPS (2)	79	4,528	3,214	50	1,323	3,363	351	781		13,689
GRADUATE RESEARCH ASSISTANTSHIPS (3)	3,919	5,386	547	8,031	11,027	17,537	558	7,193		54,198
GRADUATE TEACHING ASSISTANTSHIPS (4)		74	37	25	333	57,115		366		57,950
OTHER TYPES OF SUPPORT (5)	2,645	270	148	65	1,612	7,978	4,195	3,576	75,641	96,130
FULL-TIME TOTAL (6)	6,898	10,819	4,184	9,476	16,025	96,188	8,690	15,725	75,641	243,646
FULL-TIME WOMEN (7)	737	4,250	3,207	1,761	4,307	31,995	1,370	4,324	29,510	81,461
FIRST-YEAR TOTAL (8)										78,341
FIRST-YEAR WOMEN (9)										29,151

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	114,630
WOMEN (2)	45,625

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	5,998	668	5,860	5,817	155,417	9,980	59,906	243,646
PART-TIME (2)	4,848	328	2,981	3,464	84,123	9,191	9,695	114,630

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	2,478	2,605	9,965	5,742	20,790	7,542	4,888	25,678
WOMEN (2)	666	785	2,017	1,336	4,804	1,155	983	5,787
WITH MD, DDS, OR DVM DEGREES (3)	537	1,009	566	1,740	3,852	975	362	4,214

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-2. SUMMARY OF RESPONSES FROM ALL ENGINEERING DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 1062

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	98	16	30	261	363	1,641	999	1,383		4,791
GRADUATE TRAINEESHIPS (2)	1	100	7	1	156	310	34	196		805
GRADUATE RESEARCH ASSISTANTSHIPS (3)	2,310	352	54	2,404	3,871	3,373	91	3,143		15,600
GRADUATE TEACHING ASSISTANTSHIPS (4)		3	0	3	32	9,755		127		9,920
OTHER TYPES OF SUPPORT (5)	1,571	6	5	5	273	1,194	1,203	792	17,388	22,437
FULL-TIME TOTAL (6)	3,980	477	98	2,674	4,695	16,273	2,327	5,641	17,388	53,553
FULL-TIME WOMEN (7)	195	104	21	229	465	1,931	115	664	2,081	5,805
FIRST-YEAR TOTAL (8)										18,932
FIRST-YEAR WOMEN (9)										2,385

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	32,420
WOMEN (2)	3,688

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	612	91	1,648	749	24,546	3,498	22,409	53,553
PART-TIME (2)	597	69	1,179	585	21,282	4,636	4,072	32,420

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	36	26	703	344	1,109	693	630	1,739
WOMEN (2)	1	4	56	26	87	36	35	122
WITH MD, DDS, OR DVM DEGREES (3)	2	1	14	2	19	10	17	36

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE IV-B-3. SUMMARY OF RESPONSES FROM ALL PHYSICAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 520

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	9	26	4	199	93	983	203	399		1,916
GRADUATE TRAINEESHIPS (2)	3	100	4		20	164	13	43		354
GRADUATE RESEARCH ASSISTANTSHIPS (3)	731	1,270	89	2,984	2,345	964	35	648		9,066
GRADUATE TEACHING ASSISTANTSHIPS (4)		5	0	10	23	10,837		30		10,905
OTHER TYPES OF SUPPORT (5)	84	8	1	7	25	216	211	95	1,588	2,235
FULL-TIME TOTAL (6)	827	1,409	98	3,207	2,506	13,164	462	1,215	1,588	24,476
FULL-TIME WOMEN (7)	114	347	20	447	363	2,753	78	225	262	4,629
FIRST-YEAR TOTAL (8)										6,407
FIRST-YEAR WOMEN (9)										1,472

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	3,225
WOMEN (2)	741

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	330	34	537	471	15,099	977	7,028	24,476
PART-TIME (2)	96	3	103	104	2,479	113	327	3,225

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	261	25	3,472	686	4,444	2,385	756	5,200
WOMEN (2)	41	7	384	103	535	242	78	613
WITH MD, DDS, OR DVM DEGREES (3)	0	0	4	1	5	1	0	5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-4. SUMMARY OF RESPONSES FROM ALL ENVIRONMENTAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 284

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	2	0	0	88	76	314	114	270		864
GRADUATE TRAINEESHIPS (2)	0	11	26	10	27	120	22	60		276
GRADUATE RESEARCH ASSISTANTSHIPS (3)	190	8	1	1,208	912	586	43	521		3,469
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	18	2,714		16		2,748
OTHER TYPES OF SUPPORT (5)	171	0	0	7	84	327	127	83	3,272	4,071
FULL-TIME TOTAL (6)	363	19	27	1,313	1,117	4,061	306	950	3,272	11,428
FULL-TIME WOMEN (7)	51	4	10	320	280	1,107	26	217	803	2,818
FIRST-YEAR TOTAL (8)										3,517
FIRST-YEAR WOMEN (9)										940

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	2,855
WOMEN (2)	771

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	76	23	145	134	8,795	615	1,640	11,428
PART-TIME (2)	22	1	63	65	2,500	55	149	2,855

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	9	4	301	100	414	158	297	711
WOMEN (2)	2	1	45	14	62	13	20	82
WITH MD, DDS, OR DVM DEGREES (3)	0	0	5	4	9	2	6	15

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE IV-B-5. SUMMARY OF RESPONSES FROM ALL COMPUTER SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 146

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: OTHER HHS (C)	FEDERAL SOURCES (EXCLUDING LOANS): NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES (EXCLUDING LOANS): OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	16	1	0	42	9	187	77	141		473
GRADUATE TRAINEESHIPS (2)	0	7	0	0	2	39	0	2		50
GRADUATE RESEARCH ASSISTANTSHIPS (3)	317	16	3	336	169	341	3	182		1,367
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	3	1	2,295		13		2,312
OTHER TYPES OF SUPPORT (5)	108	2	0	3	10	210	116	155	4,452	5,056
FULL-TIME TOTAL (6)	441	26	3	384	191	3,072	196	493	4,452	9,258
FULL-TIME WOMEN (7)	35	2	0	49	29	759	33	103	1,192	2,202
FIRST-YEAR TOTAL (8)										3,392
FIRST-YEAR WOMEN (9)										862

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	9,264
WOMEN (2)	2,821

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	U.S. CITIZENS: AMERICAN INDIAN/ ALASKAN (B)	U.S. CITIZENS: ASIAN/ PACIFIC ISLANDER (C)	U.S. CITIZENS: HISPANIC (D)	U.S. CITIZENS: WHITE NON-HISPANIC (E)	U.S. CITIZENS: OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	117	7	442	83	4,417	662	3,530	9,258
PART-TIME (2)	255	6	511	112	5,264	1,149	1,367	9,664

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FELLOWSHIPS (A)	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL TRAINEESHIPS (B)	POSTDOCTORATES: SOURCE OF SUPPORT: RESEARCH GRANTS (C)	POSTDOCTORATES: SOURCE OF SUPPORT: NON-FEDERAL (D)	POSTDOCTORATES: TOTAL FOR ALL SOURCES (A - D) (E)	POSTDOCTORATES: FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1	7	39	35	82	45	58	140
WOMEN (2)	0	0	7	3	10	7	2	12
WITH MD, DDS, OR DVM DEGREES (3)	1	7	1	1	10	1	2	12

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-6. SUMMARY OF RESPONSES FROM ALL MATHEMATICAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 333

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: OTHER HHS (C)	FEDERAL SOURCES (EXCLUDING LOANS): NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES (EXCLUDING LOANS): OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	7	3	0	81	26	340	176	52		685
GRADUATE TRAINEESHIPS (2)	0	6	0	9	5	83	1	11		115
GRADUATE RESEARCH ASSISTANTSHIPS (3)	96	19	13	131	93	355	11	59		777
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	15	6,130		2		4,147
OTHER TYPES OF SUPPORT (5)	204	0	0	1	40	218	147	48	1,941	2,599
FULL-TIME TOTAL (6)	307	28	13	222	179	7,126	335	172	1,941	10,323
FULL-TIME WOMEN (7)	35	11	1	36	37	1,878	63	41	567	2,669
FIRST-YEAR TOTAL (8)										3,311
FIRST-YEAR WOMEN (9)										1,035

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	4,620
WOMEN (2)	1,579

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	U.S. CITIZENS: AMERICAN INDIAN/ ALASKAN (B)	U.S. CITIZENS: ASIAN/ PACIFIC ISLANDER (C)	U.S. CITIZENS: HISPANIC (D)	U.S. CITIZENS: WHITE NON-HISPANIC (E)	U.S. CITIZENS: OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	126	7	285	201	5,227	390	4,087	10,323
PART-TIME (2)	144	13	143	94	3,406	269	547	4,620

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FELLOWSHIPS (A)	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL TRAINEESHIPS (B)	POSTDOCTORATES: SOURCE OF SUPPORT: RESEARCH GRANTS (C)	POSTDOCTORATES: SOURCE OF SUPPORT: NON-FEDERAL (D)	POSTDOCTORATES: TOTAL FOR ALL SOURCES (A - D) (E)	POSTDOCTORATES: FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	27	3	53	87	170	90	125	295
WOMEN (2)	3	0	4	9	16	6	12	28
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE IV-B-7. SUMMARY OF RESPONSES FROM ALL LIFE SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 4286

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	77	452	94	353	399	2,534	854	800		5,567
GRADUATE TRAINEESHIPS (2)	74	3,894	2,825	18	746	1,198	210	190		9,155
GRADUATE RESEARCH ASSISTANTSHIPS (3)	162	9,324	175	146	2,724	6,564	868	2,038		16,001
GRADUATE TEACHING ASSISTANTSHIPS (4)		66	37	4	123	11,597		129		11,956
OTHER TYPES OF SUPPORT (5)	197	213	100	18	386	2,250	1,338	909	17,005	22,416
FULL-TIME TOTAL (6)	510	7,959	3,235	1,139	4,378	24,143	2,750	4,066	17,005	65,185
FULL-TIME WOMEN (7)	210	3,249	2,729	444	1,840	10,358	537	1,560	9,706	30,633
FIRST-YEAR TOTAL (8)										20,599
FIRST-YEAR WOMEN (9)										11,280

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	26,110
WOMEN (2)	18,268

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,367	191	1,408	1,635	48,931	1,485	9,968	65,185
PART-TIME (2)	1,048	84	523	579	21,726	990	1,160	26,110

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	2,029	2,346	5,193	4,207	13,775	3,993	2,660	16,435
WOMEN (2)	575	695	1,440	1,090	3,800	807	723	4,523
WITH MD, DDS, OR DVM DEGREES (3)	531	999	537	1,731	3,798	959	332	4,130

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-8. SUMMARY OF RESPONSES FROM ALL PSYCHOLOGY DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 335

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	31	24	33	90	76	815	25	116		1,210
GRADUATE TRAINEESHIPS (2)	1	242	204	4	123	639	4	102		1,319
GRADUATE RESEARCH ASSISTANTSHIPS (3)	92	310	178	91	252	1,518	2	233		2,676
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	2	49	4,590		14		4,655
OTHER TYPES OF SUPPORT (5)	11	8	5	5	151	1,232	34	785	9,236	11,467
FULL-TIME TOTAL (6)	135	584	420	192	651	8,794	65	1,250	9,236	21,327
FULL-TIME WOMEN (7)	52	334	222	93	358	4,868	32	662	5,115	11,736
FIRST-YEAR TOTAL (8)										5,392
FIRST-YEAR WOMEN (9)										3,240

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	7,768
WOMEN (2)	4,641

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	863	87	290	897	17,327	958	905	21,327
PART-TIME (2)	407	26	84	371	6,172	457	251	7,768

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	73	126	124	103	436	61	153	589
WOMEN (2)	31	53	56	38	178	20	53	231
WITH MD, DDS, OR DVM DEGREES (3)	2	2	4	1	9	2	2	11

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE IV-8-9. SUMMARY OF RESPONSES FROM ALL SOCIAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 1238

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	15	39	73	191	668	3,381	1,138	668		6,773
GRADUATE TRAINEESHIPS (2)	0	168	148	1	244	810	67	177		1,615
GRADUATE RESEARCH ASSISTANTSHIPS (3)	21	77	32	131	661	3,836	25	369		5,152
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	3	72	9,197		35		9,307
OTHER TYPES OF SUPPORT (5)	299	33	37	19	643	2,331	1,019	709	20,755	25,849
FULL-TIME TOTAL (6)	335	317	290	345	2,308	19,555	2,249	1,938	20,759	48,096
FULL-TIME WOMEN (7)	45	199	20	123	935	8,341	486	852	9,784	20,969
FIRST-YEAR TOTAL (8)										16,791
FIRST-YEAR WOMEN (9)										7,957

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	28,368
WOMEN (2)	13,116

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS							
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	2,507	223	905	1,647	31,075	1,395	10,339	48,096
PART-TIME (2)	2,275	126	473	1,554	20,594	1,502	1,842	28,368

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES							
	SOURCE OF SUPPORT							
	FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	42	68	70	180	360	117	209	569
WOMEN (2)	13	25	25	53	116	24	60	176
WITH MD, DDS, OR DVM DEGREES (3)	1	0	1	0	2	0	3	5

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE IV-C-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 1459

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	0	19	1	4	138	258	89	76		565
GRADUATE TRAINEESHIPS (2)	5	27	109	14	105	196	15	22		493
GRADUATE RESEARCH ASSISTANTSHIPS (3)	15	84	5	41	191	1,041	2	93		1,472
GRADUATE TEACHING ASSISTANTSHIPS (4)		1	0	0	35	2,587		26		2,649
OTHER TYPES OF SUPPORT (5)	126	23	14	2	250	872	254	340	13,094	14,975
FULL-TIME TOTAL (6)	146	154	129	51	719	4,934	360	557	13,094	20,154
FULL-TIME WOMEN (7)	22	81	115	19	309	2,306	60	207	6,969	10,088
FIRST-YEAR TOTAL (8)										8,609
FIRST-YEAR WOMEN (9)										4,360

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	35,134
WOMEN (2)	16,318

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,478	133	616	740	12,622	1,674	2,891	20,154
PART-TIME (2)	2,163	117	1,217	1,221	24,754	3,768	1,894	35,134

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	2	1	22	14	39	12	48	87
WOMEN (2)	0	1	4	3	8	3	6	14
WITH MD, DDS, OR DVM DEGREES (3)	1	0	1	0	2	0	1	3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-2. SUMMARY OF RESPONSES FROM ALL ENGINEERING DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 157

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	0	0	0	1	19	39	5	33		97
GRADUATE TRAINEESHIPS (2)	0	0	0	0	1	0	9	0		10
GRADUATE RESEARCH ASSISTANTSHIPS (3)	12	0	0	7	15	44	1	21		100
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	4	196		3		203
OTHER TYPES OF SUPPORT (5)	17	0	0	0	8	81	104	89	968	1,267
FULL-TIME TOTAL (6)	29	0	0	8	47	360	119	146	968	1,677
FULL-TIME WOMEN (7)	3	0	0	0	9	40	1	16	160	229
FIRST-YEAR TOTAL (8)										745
FIRST-YEAR WOMEN (9)										97

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	5,067
WOMEN (2)	512

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	56	10	122	41	672	136	640	1,677
PART-TIME (2)	154	15	464	123	3,291	470	590	5,067

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	2	2	4	1	1	5
WOMEN (2)	0	0	1	0	1	1	0	1
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-3. SUMMARY OF RESPONSES FROM ALL PHYSICAL SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 146

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: OTHER HHS (C)	FEDERAL SOURCES (EXCLUDING LOANS): NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES (EXCLUDING LOANS): OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	0	0	0	2	8	11	3	5		29
GRADUATE TRAINEESHIPS (2)	1	9	0	0	1	0	0	0		11
GRADUATE RESEARCH ASSISTANTSHIPS (3)	3	19	0	6	21	33	0	3		85
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	7	369		3		379
OTHER TYPES OF SUPPORT (5)	0	0	0	0	1	33	2	1	180	217
FULL-TIME TOTAL (6)	4	28	0	8	38	446	5	12	180	721
FULL-TIME WOMEN (7)	1	16	0	4	13	123	3	5	38	203
FIRST-YEAR TOTAL (8)										300
FIRST-YEAR WOMEN (9)										87

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	1,026
WOMEN (2)	200

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	U.S. CITIZENS: AMERICAN INDIAN/ ALASKAN (B)	U.S. CITIZENS: ASIAN/ PACIFIC ISLANDER (C)	U.S. CITIZENS: HISPANIC (D)	U.S. CITIZENS: WHITE NON-HISPANIC (E)	U.S. CITIZENS: OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	82	6	52	15	340	35	191	721
PART-TIME (2)	66	2	56	9	698	93	102	1,026

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	9	5	14	9	3	17
WOMEN (2)	0	0	1	1	2	2	1	3
WITH MD, DDS, OR DVM DEGREES (3)	0	0	1	0	1	0	0	1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-4. SUMMARY OF RESPONSES FROM ALL ENVIRONMENTAL SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 55

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: OTHER HHS (C)	FEDERAL SOURCES (EXCLUDING LOANS): NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES (EXCLUDING LOANS): OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	0	6	0	0	1	0	2	0		9
GRADUATE TRAINEESHIPS (2)	0	0	0	0	3	7	0	3		13
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	0	0	9	16	27	0	13		65
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	2	136		0		138
OTHER TYPES OF SUPPORT (5)	2	0	0	1	3	27	3	16	346	398
FULL-TIME TOTAL (6)	2	6	0	10	25	197	5	32	346	623
FULL-TIME WOMEN (7)	0	0	0	3	3	65	0	5	125	201
FIRST-YEAR TOTAL (8)										259
FIRST-YEAR WOMEN (9)										80

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	719
WOMEN (2)	183

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	U.S. CITIZENS: AMERICAN INDIAN/ ALASKAN (B)	U.S. CITIZENS: ASIAN/ PACIFIC ISLANDER (C)	U.S. CITIZENS: HISPANIC (D)	U.S. CITIZENS: WHITE NON-HISPANIC (E)	U.S. CITIZENS: OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	6	1	13	10	467	89	37	623
PART-TIME (2)	7	2	22	16	577	67	28	719

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1	0	3	1	5	1	4	9
WOMEN (2)	0	0	0	0	0	0	1	1
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-5. SUMMARY OF RESPONSES FROM ALL COMPUTER SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 46

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: OTHER HHS (C)	FEDERAL SOURCES (EXCLUDING LOANS): NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES (EXCLUDING LOANS): OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	0	0	0	0	7	5	1	1		14
GRADUATE TRAINEESHIPS (2)	0	0	0	0	0	0	0	0		0
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	0	0	2	0	29	0	5		36
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	1	87		12		100
OTHER TYPES OF SUPPORT (5)	34	0	0	0	41	23	61	65	1,046	1,270
FULL-TIME TOTAL (6)	34	0	0	2	49	144	62	83	1,046	1,420
FULL-TIME WOMEN (7)	8	0	0	0	10	40	24	20	339	441
FIRST-YEAR TOTAL (8)										489
FIRST-YEAR WOMEN (9)										154

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	3,901
WOMEN (2)	1,228

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	90	4	116	22	638	99	451	1,420
PART-TIME (2)	104	5	178	66	2,648	556	344	3,901

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	0	0	0	0	3	3
WOMEN (2)	0	0	0	0	0	0	0	0
WITH MD, DOS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-6. SUMMARY OF RESPONSES FROM ALL MATHEMATICAL SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 120

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES (EXCLUDING LOANS): HHS: OTHER HHS (C)	FEDERAL SOURCES (EXCLUDING LOANS): NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES (EXCLUDING LOANS): OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	0	0	0	0	0	5	0	0		5
GRADUATE TRAINEESHIPS (2)	0	0	0	0	2	7	0	0		9
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	0	0	0	0	28	0	0		28
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	2	310		0		312
OTHER TYPES OF SUPPORT (5)	5	0	0	1	3	27	2	2	261	301
FULL-TIME TOTAL (6)	5	0	0	1	7	381	2	2	261	659
FULL-TIME WOMEN (7)	0	0	0	0	3	157	1	1	93	255
FIRST-YEAR TOTAL (8)										297
FIRST-YEAR WOMEN (9)										109

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	1,912
WOMEN (2)	741

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	38	5	52	4	366	29	165	659
PART-TIME (2)	93	8	86	33	1,381	130	181	1,912

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	0	0	0	0	0	0
WOMEN (2)	0	0	0	0	0	0	0	0
WITH MD, DOS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-7. SUMMARY OF RESPONSES FROM ALL LIFE SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 385

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	0	3	1	1	26	43	26	9		109
GRADUATE TRAINEESHIPS (2)	4	13	101	12	60	77	3	7		277
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	59	5	16	86	282	1	47		496
GRADUATE TEACHING ASSISTANTSHIPS (4)		1	0	0	12	795		8		816
OTHER TYPES OF SUPPORT (5)	4	23	9	0	41	202	20	49	2,974	3,322
FULL-TIME TOTAL (6)	8	99	116	29	225	1,399	50	120	2,974	5,020
FULL-TIME WOMEN (7)	3	51	108	11	132	754	13	72	1,907	3,051
FIRST-YEAR TOTAL (8)										2,069
FIRST-YEAR WOMEN (9)										1,302

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	7,584
WOMEN (2)	5,111

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	368	31	90	172	3,648	249	462	5,020
PART-TIME (2)	487	39	158	235	5,801	520	274	7,584

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1	1	8	4	14	1	26	40
WOMEN (2)	0	1	2	0	3	0	3	6
WITH MD, DDS, OR DVM DEGREES (3)	1	0	0	0	1	0	1	2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-8. SUMMARY OF RESPONSES FROM ALL PSYCHOLOGY DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 195

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	0	10	0	0	11	37	0	4		62
GRADUATE TRAINEESHIPS (2)	0	0	4	0	1	44	0	0		49
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	6	0	0	17	281	0	1		305
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	3	371		0		374
OTHER TYPES OF SUPPORT (5)	39	0	0	0	70	321	5	29	4,183	4,647
FULL-TIME TOTAL (6)	39	16	4	0	102	1,054	5	34	4,183	5,437
FULL-TIME WOMEN (7)	5	11	1	0	51	655	5	27	2,860	3,615
FIRST-YEAR TOTAL (8)										2,471
FIRST-YEAR WOMEN (9)										1,606

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	6,602
WOMEN (2)	4,440

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	283	29	79	248	4,056	556	186	5,437
PART-TIME (2)	364	18	80	313	5,175	563	89	6,602

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	0	1	1	0	1	2
WOMEN (2)	0	0	0	1	1	0	0	1
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-9. SUMMARY OF RESPONSES FROM ALL SOCIAL SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 355

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	0	0	0	0	66	94	52	24		236
GRADUATE TRAINEESHIPS (2)	0	5	4	2	37	61	3	12		124
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	0	0	1	36	317	0	3		357
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	4	323		0		327
OTHER TYPES OF SUPPORT (5)	25	0	5	0	83	158	57	89	3,136	3,553
FULL-TIME TOTAL (6)	25	5	9	3	226	953	112	128	3,136	4,597
FULL-TIME WOMEN (7)	2	3	6	1	88	472	13	61	1,447	2,093
FIRST-YEAR TOTAL (8)										1,979
FIRST-YEAR WOMEN (9)										925

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	8,323
WOMEN (2)	3,803

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS							
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	355	47	92	228	2,435	481	759	4,597
PART-TIME (2)	888	28	173	426	5,223	1,299	286	8,323

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES							
	SOURCE OF SUPPORT							
	FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	0	1	1	0	10	11
WOMEN (2)	0	0	0	1	1	0	1	2
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL MEDICAL SCHOOLS: FALL 1983

NUMBER OF DEPARTMENTS: 2730

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	DHS: NATIONAL INST. OF HEALTH (B)	DHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	82	286	27	101	63	1,050	120	248		1,977
GRADUATE TRAINEESHIPS (2)	52	1,915	940	12	204	564	66	66		3,819
GRADUATE RESEARCH ASSISTANTSHIPS (3)	26	1,502	36	55	140	1,064	17	201		3,041
GRADUATE TEACHING ASSISTANTSHIPS (4)		43	12	2	16	1,467		28		1,568
OTHER TYPES OF SUPPORT (5)	83	145	10	6	71	702	206	264	3,527	5,014
FULL-TIME TOTAL (6)	243	3,891	1,025	176	494	4,847	409	807	3,527	15,439
FULL-TIME WOMEN (7)	125	1,505	843	89	268	2,241	119	346	1,966	7,502
FIRST-YEAR TOTAL (8)										4,969
FIRST-YEAR WOMEN (9)										2,697

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	4,383
WOMEN (2)	3,031

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	344	42	519	631	11,796	301	1,786	15,419
PART-TIME (2)	172	27	87	165	3,604	171	157	4,383

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1,977	2,066	2,804	2,926	9,173	2,353	1,459	10,632
WOMEN (2)	376	624	815	726	2,541	521	438	2,979
WITH MD, DDS, OR DVM DEGREES (3)	516	950	449	1,606	3,541	889	190	3,731

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-2. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT PUBLIC MEDICAL SCHOOLS: FALL 1983

NUMBER OF DEPARTMENTS: 1568

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	DHS: NATIONAL INST. OF HEALTH (B)	DHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	75	149	13	47	36	659	73	137		1,189
GRADUATE TRAINEESHIPS (2)	43	843	812	1	144	243	26	25		2,137
GRADUATE RESEARCH ASSISTANTSHIPS (3)	2[illegible]	984	24	37	70	865	7	142		2,155
GRADUATE TEACHING ASSISTANTSHIPS (4)		33	4	2	16	1,069		19		1,143
OTHER TYPES OF SUPPORT (5)	67	64	9	0	58	359	51	190	2,150	2,948
FULL-TIME TOTAL (6)	211	2,073	862	87	324	3,195	157	513	2,150	9,572
FULL-TIME WOMEN (7)	115	800	727	48	184	1,479	43	233	1,279	4,908
FIRST-YEAR TOTAL (8)										3,061
FIRST-YEAR WOMEN (9)										1,770

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	2,959
WOMEN (2)	2,145

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	181	30	324	553	7,338	177	964	9,572
PART-TIME (2)	120	23	46	137	2,478	41	114	2,959

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	685	976	1,407	1,260	4,328	1,203	860	5,188
WOMEN (2)	191	295	410	312	1,208	232	267	1,475
WITH MD, DDS, OR DVM DEGREES (3)	226	382	240	596	1,444	354	95	1,539

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-3. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT PRIVATE MEDICAL SCHOOLS: FALL 1983

NUMBER OF DEPARTMENTS: 1162

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: HHS: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	7	137	14	54	57	391	47	111		788
GRADUATE TRAINEESHIPS (2)	9	1,072	128	11	60	321	40	41		1,682
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	518	32	18	70	199	10	59		886
GRADUATE TEACHING ASSISTANTSHIPS (4)		10	8	0	0	398		9		425
OTHER TYPES OF SUPPORT (5)	16	81	1	6	13	343	155	74	1,377	2,066
FULL-TIME TOTAL (6)	32	1,818	163	89	170	1,652	252	294	1,377	5,847
FULL-TIME WOMEN (7)	10	705	116	41	84	762	76	113	687	2,594
FIRST-YEAR TOTAL (8)										1,908
FIRST-YEAR WOMEN (9)										927
6. PART-TIME S/E GRADUATE STUDENTS — TOTAL (1)	1,424									
WOMEN (2)	886									

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	163	12	190	78	4,458	124	822	5,847
PART-TIME (2)	52	4	41	28	1,126	132	43	1,424

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF FEDERAL SUPPORT: FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	692	1,090	1,397	1,666	4,845	1,350	599	5,444
WOMEN (2)	185	329	405	414	1,333	289	171	1,504
WITH MD, DDS, OR DVM DEGREES (3)	290	568	229	1,010	2,097	535	95	2,192

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-4. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL PUBLIC INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 6629

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: HHS: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	169	302	137	537	1,359	5,764	2,076	2,210		12,554
GRADUATE TRAINEESHIPS (2)	69	2,329	2,452	42	1,111	1,909	264	570		8,746
GRADUATE RESEARCH ASSISTANTSHIPS (3)	2,493	3,840	429	5,427	8,633	15,427	467	5,594		42,310
GRADUATE TEACHING ASSISTANTSHIPS (4)		54	29	8	259	47,348		275		48,273
OTHER TYPES OF SUPPORT (5)	2,369	151	123	54	1,029	5,555	3,021	2,709	62,202	77,213
FULL-TIME TOTAL (6)	5,100	6,676	3,170	6,068	12,391	76,303	5,828	11,358	62,202	189,096
FULL-TIME WOMEN (7)	529	2,627	2,446	1,146	3,469	25,482	846	3,243	25,196	64,984
FIRST-YEAR TOTAL (8)										61,786
FIRST-YEAR WOMEN (9)										23,707
6. PART-TIME S/E GRADUATE STUDENTS — TOTAL (1)	90,310									
WOMEN (2)	39,085									

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	4,893	603	4,619	4,862	121,441	8,545	44,133	189,096
PART-TIME (2)	3,995	311	2,499	2,808	66,677	6,976	7,044	90,310

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF FEDERAL SUPPORT: FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1,270	1,284	6,172	3,026	11,752	4,473	2,983	14,735
WOMEN (2)	361	386	1,176	672	2,595	614	583	3,178
WITH MD, DDS, OR DVM DEGREES (3)	237	412	299	682	1,630	398	213	1,843

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-5. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL PRIVATE INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 3034

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: HHS: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	86	278	102	772	509	4,449	1,599	1,675		9,690
GRADUATE TRAINEESHIPS (2)	15	2,226	871	22	317	1,650	102	233		5,436
GRADUATE RESEARCH ASSISTANTSHIPS (3)	1,441	1,630	123	2 645	2,585	3,151	91	1,692		13,360
GRADUATE TEACHING ASSISTANTSHIPS (4)		21	8	07	109	12,054		117		12,326
OTHER TYPES OF SUPPORT (5)	402	142	39	13	833	3,295	1,428	1,207	26,533	33,892
FULL-TIME TOTAL (6)	1,944	4,297	1,143	3,469	4,353	24,819	3,222	4,924	26,533	74,704
FULL-TIME WOMEN (7)	230	1,704	876	634	1,147	6,819	584	1,288	11,283	26,965
FIRST-YEAR TOTAL (8)										25,164
FIRST-YEAR WOMEN (9)										9,804
6. PART-TIME S/E GRADUATE STUDENTS: TOTAL (1)	59,454									
WOMEN (2)	22,858									

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	2,583	198	1,857	1,695	46,598	3,109	18,664	74,704
PART-TIME (2)	3,016	134	1,699	1,877	42,200	5,983	4,545	59,454

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1,210	1,322	3,815	2,730	9,077	3,081	1,953	11,030
WOMEN (2)	305	400	845	667	2,217	544	406	2,623
WITH MD, DDS, OR DVM DEGREES (3)	301	597	268	1,058	2,224	577	150	2,374

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-6. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT HISTORICALLY BLACK INSTITUTIONS: FALL 1983

NUMBER OF DEPARTMENTS: 150

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: HHS: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT: GRADUATE FELLOWSHIPS (1)	0	5	10	10	44	108	22	73		272
GRADUATE TRAINEESHIPS (2)	5	93	17	19	51	25	10	0		220
GRADUATE RESSARCH ASSISTANTSHIPS (3)	27	80	5	18	119	103	1	15		368
GRADUATE TEACHING ASSISTANTSHIPS (4)		3	0	0	0	350		4		357
OTHER TYPES OF SUPPORT (5)	1	6	1	3	43	87	7	44	920	1,112
FULL-TIME TOTAL (6)	33	187	33	50	257	673	40	136	920	2,329
FULL-TIME WOMEN (7)	8	104	32	20	113	280	6	68	343	974
FIRST-YEAR TOTAL (8)										831
FIRST-YEAR WOMEN (9)										378
6. PART-TIME S/E GRADUATE STUDENTS: TOTAL (1)	1,241									
WOMEN (2)	591									

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,125	9	53	14	234	44	850	2,329
PART-TIME (2)	581	6	24	5	368	22	235	1,241

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	9	4	26	8	47	20	9	56
WOMEN (2)	4	3	8	1	16	6	0	16
WITH MD, DDS, OR DVM DEGREES (3)	2	0	3	0	5	0	0	5

SOURCE: NATIONAL SCIENCE FOUNDATION

other science resources publications

Science Resources Studies Highlights

R&D Funds

	NSF No.	Price
"7% Real Growth Expected in 1985 National R&D Expenditures: Defense and Economy Major Factors"	85-304	-----
"Defense and Space Research and Development Emphasized in 1985 Budget"	84-333	-----
"Plans for Company-Funded Research and Development Show 12% Annual Increases Through 1985"	84-329	-----
"1983 Plant Biology Research Expenditures Totaled $200 Million and Were Concentrated in Land-grant Institutions"	84-327	-----
"Despite Recession, Companies' Own R&D Funding Rose 13% During 1982"	84-314	-----
"Real Growth in Federal R&D Funds Estimated at 12% in 1984—Largest Increase Since Midsixties"	84-302	-----

S/E Personnel

	NSF No.	Price
"Ph. D. Scientists and Engineers Continue Shift to Industrial Employment"	85-301	-----
"Women and Non-U.S. Citizens Responsible for Increase in Production of Science and Engineering Doctorates in 1983"	84-328	-----
"Science and Engineering Jobs Grew Twice as Fast as Overall U.S. Employment with Industry Taking the Lead"	84-319	-----
"One-fourth of Academic Research Equipment Classified Obsolete"	84-312	-----
"1982 Job Market for New Science and Engineering Graduates About the Same as That of Previous Years"	84-310	-----
"Industry Reports Shortages of Scientists and Engineers Down Substantially From 1982 to 1983"	84-303	-----
"1982 Doctorate Production Stable in Science and Engineering Fields, But Down in Science and Mathematics Education"	83-330	-----
"No Change in Science and Engineering Student Quality Seen by 60% of Academic Officials: At Least 25% Perceive Improvement"	83-322	-----

Detailed Statistical Tables

R&D Funds

	NSF No.	Price
Federal Funds for Research and Development, Fiscal Years 1983, 1984, and 1985, Volume XXXIII	84-336	-----
Research and Development in Industry: 1982. Funds, 1982; Scientists and Engineers, January 1983	84-325	-----

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	NSF No.	Price
1982 Postcensal Survey of Scientists and Engineers	84-330	-----
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Scientists, Engineers, and Technicians in Manufacturing and Nonmanufacturing Industries: 1980 and 1981	83-324	-----

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R&D Funds

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Federal Funds for Research and Development, Fiscal Years 1982, 1983, and 1984, Volume XXXII	84-326	-----
Trends in Small Companies' R&D Expenditures	84-324	-----
Federal R&D Funding by Budget Function: Fiscal Years 1983-85	84-316	-----

S/E Personnel

	NSF No.	Price
Scientific and Technical Work Force in Trade and Regulated Industries Shows Major Shift in Occupational Composition: 1979-82	84-323	-----
Women and Minorities in Science and Engineering	84-300	-----

Composite

	NSF No.	Price
Science and Engineering Personnel: A National Overview	85-302	In press
Resources Supporting Scientific and Engineering Activities at Historically Black Colleges and Universities	84-332	-----
Science and Technology Data Book	84-331	-----
Academic Science/Engineering: 1972-83. R&D Funds, Federal Support, Scientists and Engineers, Graduate Enrollment and Support	84-322	-----
A Guide to NSF Science/Engineering Resources Data	84-301	-----

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